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The CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2.

Registered as a Newspaper

No. 2740
VOL. CXVII.

AUGUST 13, 1932

Annual Subscription (with
Diary) 20/- Single Copies 9d.

Preparations for Diabetics



Sell these products to Diabetics

and to those who for some reason are seeking foods with a low carbohydrate content. There is a large number of your customers—nothing wrong with them—just wishing to be slimmer. These products are what they require. This is new business for you.

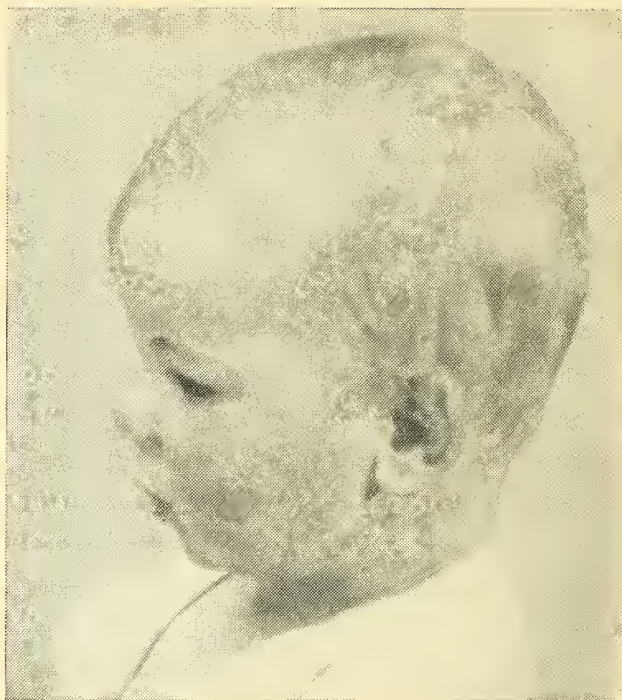
Telephone:
Bishopsgate 3201 (12 lines)

Allen & Hanburys Ltd., London, E.2

Telegrams:
"Greenburys Beth London"

FACTS

YOU CAN TELL
YOUR CUSTOMERS
ABOUT LACTOGEN



LACTOGEN is Pure

The milk for Lactogen comes from selected herds that graze on sweet English meadowlands. Close inspection, rigorous tests, ensure absolute purity and unvarying quality. Lactogen is hygienically packed. The special container is sealed in a way which makes contamination impossible. Bacteriological examination of the tins as packed for market, demonstrates the unassailable purity of Lactogen.

The demand for Lactogen is growing every day. Doctors, Chemists and Nurses all over the country recognise its genuine merit, and recommend it enthusiastically. Babies thrive on it—therefore Mothers praise it, buy it, and tell their friends about it.

“**LACTOGEN**”
REGD. TRADE MARK
BETTER MILK FOR BABIES

Copyright

*Lactogen—prepared by Nestles—is
a modified dried milk for use in
infant feeding.*

2'9 PER TIN P.A.T.A.

*Send to-day for full particulars and terms
to the Lactogen Bureau (Dept. AZ51B),
Nestle and Anglo-Swiss Condensed Milk
Co., 6 & 8, Eastcheap, London. E.C.3.*

NEW PRODUCTS

FROM THE
**COW & GATE
HOUSE**



PEPTALAC

"The instant predigested food." It needs no cooking. Made by just adding hot water. Invaluable for infants and invalids, and a boon to those who nurse them. Protected Retail Price: 2/3 & 3/9.

CHOCOLATE MILK

The most Delicious, Nutritious, Digestible and Economical tonic beverage. All the full cream milk is in it. Just make it with water. Protected Retail Prices: 1/4½ & 2/6.

RUSKS

"The Rusk without the Risk!" Precisely the right texture to develop a child's teeth and jaws; specially shaped to prevent risk of choking. Made of the finest wheat flour and Cow & Gate Milk Food. Protected Retail Price: 1/6 per box.

FEEDERS

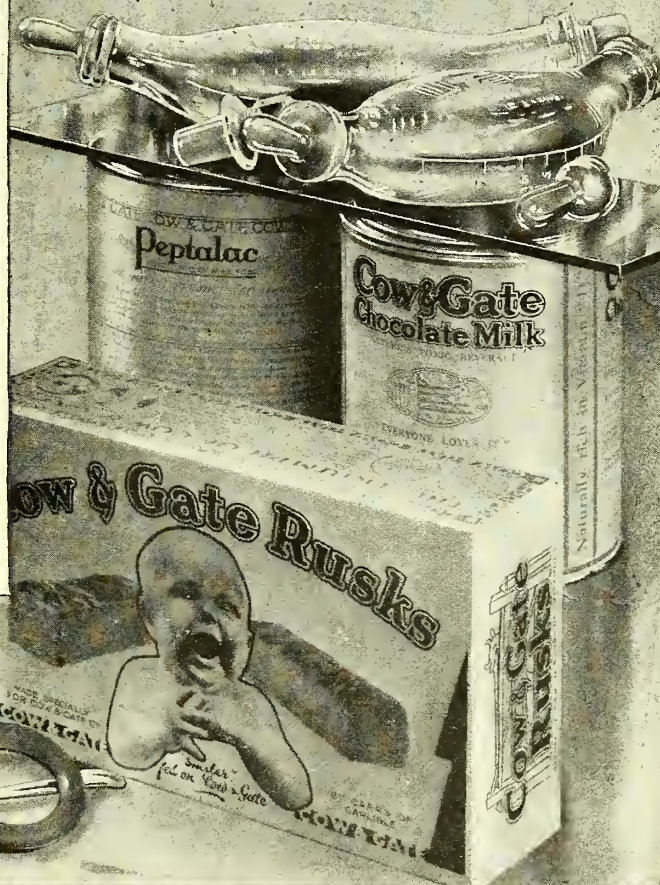
Safe, hygienic. The last word in scientific production. Protected Retail Prices: Cow & Gate Patent Glass Stoppered Feeder, enabling the flow of food to be regulated, 2/-. And No. 2 8 oz. Feeder, 1/6. No. 3 4 oz. Feeder, 1/6.

TEATS

11 cuttings, Protected Retail Price, 4d. each. Valves 3d. each.

TEETHING RINGS

Cow & Gate fine Rubber Teething Rings, 6d. each.



COW & GATE LTD., GUILDFORD, ENGLAND.

SALES THAT RISE WITH THE SUN . . .

Sun-bathing—tennis—hiking—in these open-air summer months the skin calls for the soothing protection of Hind's Honey and Almond Cream, to give the smooth clear beauty that inevitably follows the use of this fragrant cream.

Your sales will rise with the increased demand that the sun brings if you keep ahead with a prominent display of Hind's in your window and on your counter. Send your order now for a direct parcel of Hind's Cream. The three sizes, cover every need, and all sizes of Hind's Cream are sold only through Chemists and high-class Toilet Shops.



HIND'S Honey & Almond CREAM

P.A.T.A. 6d., 1/- and 2/-
Trade prices 4/6, 8/- and 16/-
per doz., less 10% discount on
£3—carriage paid. Marshall's
Lysol may be added to make
up amount. Orders under
£3 through wholesaler.

LYSOL LIMITED, LONDON, S. W. 20.

*Each of the wholesalers listed below
is ready for the Iva demand and—*

TWENTY MILLION WOMEN

are waiting for



"IVA" is a real fur powder puff. It is the only fadeless, washable puff and is created for facial hygiene. It is made in all the newest pastel and fashionable shades and it is British. The "IVA" is retailed at popular prices ranging from 6d. to 3/11, showing the full trade profit on all lines, with the usual discount terms.

the real
fur puff



For example, the 6d. puff costs you 4/3 per dozen, the 9d. puff 5/9 per dozen, the 1/- puff 7/9 per dozen, and so on. This line will be extensively advertised in the National papers, commencing at the beginning of September. Leading London and Provincial Stores are already selling it freely. Showcards are now available and the attractive packing makes an ideal window or counter display. Get your stocks in now from the wholesale houses and be ready to take advantage of the enormous demand our advertising will create.

IVA MANUFACTURING CO. : 25-29 BANNER STREET : LONDON : E.C.1

**WHOLESALE STOCKISTS OF
"IVA" FUR PUFFS, from whom
you can obtain full details and
stocks of all styles :**

- R. HOVENDON & SONS LTD.,
89-95, City Road, E.C.1
- R. HOVENDON & SONS LTD.,
29, Berners Street, W.1
- BUTLER & CRISPE LTD.,
80/84, Clerkenwell Road, E.C.1
- BARCLAY & SONS LTD.,
95, Farringdon Street, E.C.4
- SANGERS & CO. LTD.,
42a, Hampstead Road, N.W.1
- HEWLETT & SONS LTD.,
35, Charlotte Street, E.C.2
- TOOGOOD & CO. LTD.,
77, Southwark Street, S.E.1
- WATTS BROS.,
72, Cannon Street, Manchester
- SINGLE DALBY & CO.,
42, Oldham Road, Manchester
- T. & H. SMITH,
32/4, Virginia Street, Glasgow
- LORIMER & MOYSE LTD.,
7, Montrose Street, Glasgow
- HEATH BROS.,
101/3, Chapel Street, Salford
- JOHN J. DENTON LTD.,
7, Williamson Square, Liverpool

Wimbledon Pharmacist

DOUBLES

his Bob Martin **SALES**
as a result of recent Window Display

"And" he says, "the enthusiasm of my customers convinces me that this increase will be maintained."

WHEN the Bob Martin Advertising Campaign was launched, every Pharmacist stocking Bob Martin preparations was advised that he could confidently prepare for doubled sales within a few weeks.

That this forecast was not one whit exaggerated is confirmed by the following letter from Mr. E. R. Jackson, M.P.S., of Wimbledon, who has doubled his Bob Martin Sales within the last two months. And, what is more, he is convinced that this increase will be maintained.

242 The Broadway, Wimbledon,
London, S.W.19

"I have recently made a full window display of Bob Martin Preparations, with results that have really surprised me. My sales during the

past two months have doubled, and the enthusiasm of my customers convinces me that this increase will be well maintained. I am sending you a photograph of the display, upon which many friends have complimented me. Personally, I am very pleased to write this letter to you, because I must admit that even two years ago I did not believe that the Dog Medicine business offered anything like the possibilities I have since proved it to have."

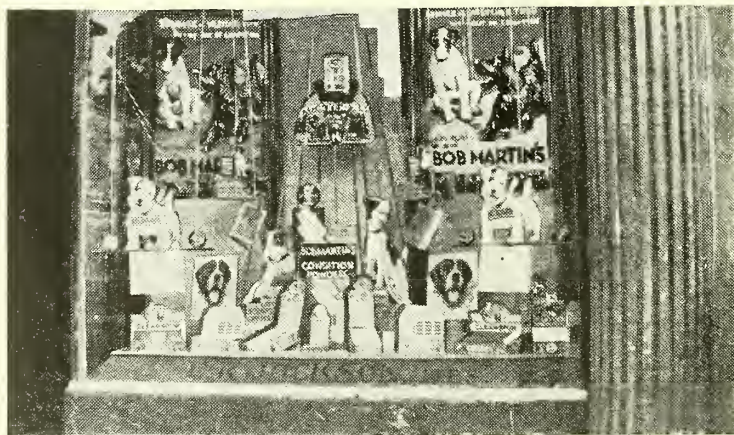
(Signed) E. R. JACKSON, M.P.S.

The Bob Martin advertising, appearing in every important daily newspaper and weekly newspaper, is making all dog owners *eager* and consistent buyers of Bob Martin's Condition Powders, and other preparations.

Nothing is more certain than that a Bob Martin display just now is a source of immediately increasing profits. You, too, can easily double your sales by following Mr. Jackson's example.

★ This is the
Window

Here is a photograph of Mr. Jackson's Window Display. No wonder it proved a winner. No other dog medicine offers such a range of attractive show material as Bob Martin preparations.



Special Bob Martin displays linking up with current advertising are always available to Pharmacists, and if you drop a postcard to Southport to-day, you will receive the newest Display Material by return. In five minutes you can make a display which is certain to double your sales of Bob Martin preparations. If you would like to receive Display Material as soon as it is issued, please ask to be put on the Bob Martin Display List.

BOB MARTIN LTD., Dog Food and Medicine Manufacturers since 1892, SOUTHPORT, ENG.

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(Continued overleaf.)

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CLOVE OIL

SANDALWOOD OIL

**STAFFORD ALLEN
& SONS LTD.**

**COWPER STREET
LONDON - E.C.2**

(Established 1833)

Distillation of Clove Oil was undertaken at Cowper Street about 1833, and the StaffAllens product has maintained the world-wide reputation it acquired ever since. StaffAllens were the first to distil Sandalwood Oil in England, probably in Europe. StaffAllens' is distinctly superior in aroma to the product distilled in the East and the price is very competitive.

WHOLESALE TRADE ONLY.

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CONTRACTS 1932 - 33**QUALITY, SERVICE & SATISFACTION****BUTTERSCOTCH**
Brand**MALT EXTRACT**
MALT EXTRACT WITH COD LIVER OILFor Supply to—
**CHEMISTS, DRUGGISTS, CLINICS,
HOSPITALS, INSTITUTIONS, ETC.**

IN BULK OR PACKED

HOME & EXPORT

WHOLESALE & RETAIL

C. TOLKIEN & CO. LTD.**MALT EXTRACT WORKS
SILSDEN, Yorkshire**Telephone: **STEETON 69** Telegrams: **REMOGEN, PHONE, STEETON**London Address: **461a CALEDONIAN ROAD, N.7** 'Phone North 5047

A large selection of attractive "own name" labels is available. Liberal display material supplied with all orders. Also price tickets, etc.

Prepared under ideal conditions

MILLAMALT

Made from best British Barley

THE VITAMIN MALT FOOD

Does not crystallise

—is always palatable—keeps indefinitely

MILLAMALT is the "Rolls Royce" of malt extracts and is well worth your attention. Manufactured under expert control—it is an extremely palatable malt extract of high Vitamin content. Chocolate or Toffee Flavour. SHOWS GOOD PROFITS. Ask us to send you samples and prices.

Jeffreys, Miller & Co. Ltd.

LEYLAND MILLS

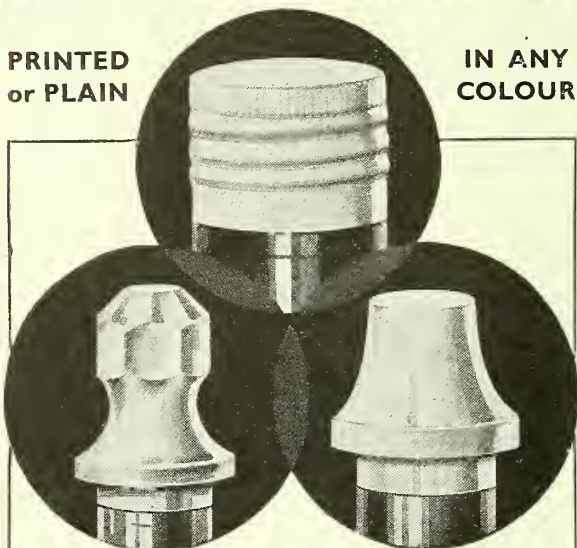
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VISKAP

SELF-FIXING
BOTTLE CAPS

PRINTED
or PLAIN

IN ANY
COLOUR



PROTECTION

first, last and all the time is definitely assured when your product is sealed with a Viskap. Place a wet Viskap in position—let it dry—seals as it shrinks. Perfectly hygienic. Entirely British.

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MOULDINGS

OF ALL DESCRIPTIONS

FROM

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Send us your enquiries.

We have a reputation of many years of service and quality to keep up and are anxious to help you.

LET US ADVISE AND QUOTE YOU

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"Adaptocaps"

*will give
your bottles
Distinction*

These Dry Bottle Caps are made in all sizes and colours, clear and opaque. They are Self Sealing, of unrivalled quality and BRITISH MANUFACTURE. Special low rates for large contracts. Let us quote you.

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COMPOSITION AND BAKELITE STOPPERS

THE MOST COMPETITIVE MANUFACTURERS IN
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MUNDET CORK PRODUCTS, LTD.

12/18 ABBEY ST., TOWER BRIDGE ROAD, S.E.1

Telegrams :
MUNDETCOMP, BERM, LONDON

Telephone :
HOP 2685 & 3979

NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the continuous demand for it produces a quick turnover.

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WHEN mistakes, forgetfulness and temptation take toll of the takings . . . whose money is short?

Wholesalers, assistants, rent, rates, taxes and other overheads must be paid. Whenever cash leakages occur IT IS THE PROPRIETOR WHO LOSES.

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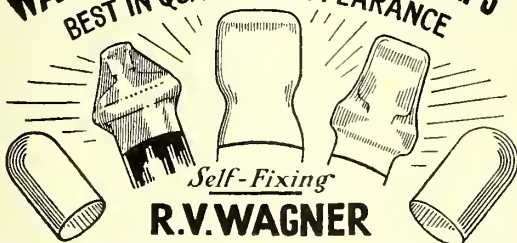
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WAGNER'S DRY BOTTLE CAPS

BEST IN QUALITY & APPEARANCE



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GLASS BOTTLES

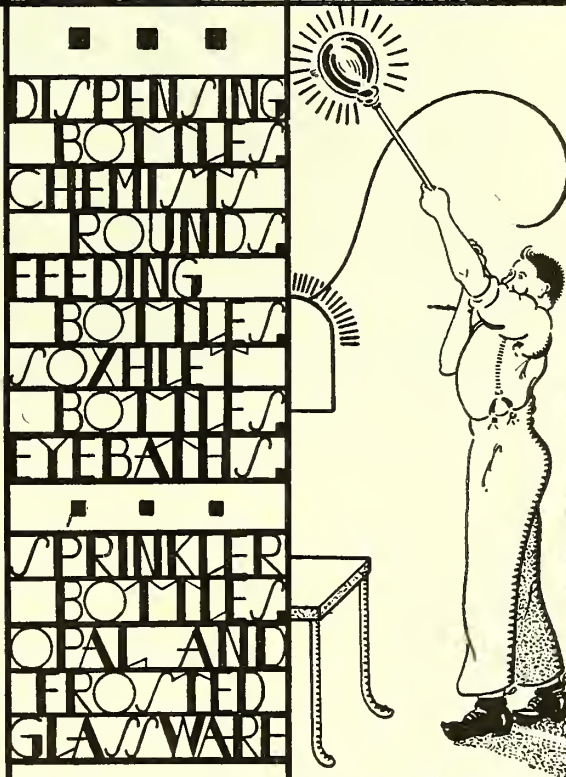
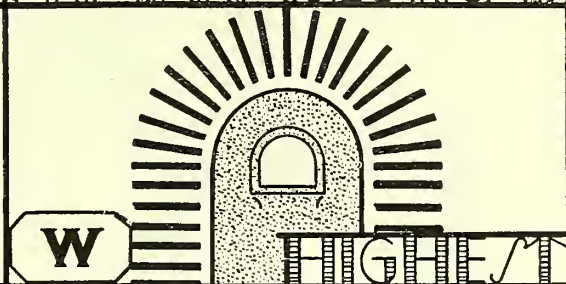
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or any other kind

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ROSEGROVE - - - BURNLEY

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QUALITY GLASSWARE

K. GRAHAM

DESIGNERS & MANUFACTURERS
OF GLASSWARE FOR PERFUMES
COSMETICS AND BATH SALTS

WOOD BROS. GLASS CO.
LIMITED

(ESTABLISHED 1828)

BARNLEY . . . ENGLAND

Perfumery boxes



Robinsons of CHESTERFIELD.

WHEAT BRIDGE MILLS, CHESTERFIELD & 168, OLD STREET, LONDON, E.C.1.



There is no shadow of doubt about the Supreme excellence of the "Town Talk" Impregnated Silver Plate Cloth.

Order from
JAMES WOOLLEY,
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MANCHESTER
AYRTON, SAUNDERS & Co., Ltd.
 It has no rival for cleaning Gold, Silver and Electro Plate and is advertised continuously in the National Daily Newspapers and Women's Journals.

LIVERPOOL
BROOKS & WARBURTON, Ltd.
 Stockists don't have to SELL "Town Talk"—they are asked for it.

GOODALL, BACKHOUSE & Co., Leeds
MAY, ROBERTS & Co. Ltd., London
 Link up with our energetic Sales Service.

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TOWN TALK POLISH CO., MANCHESTER

English Filter

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Papers

SQUARES
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SAMPLES
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Postlip Mills, Winchcombe, Cheltenham.

WE ARE RATHER GIVEN TO EMPHASISING THE FACT THAT WE ARE A DRUGGISTS' SUNDRIES HOUSE.

WE LIKE THE TERM "DRUGGISTS' SUNDRIES HOUSE." IT HAS A VERY DEFINITE AND UNEQUIVOCAL MEANING.

A DRUGGISTS' SUNDRIES HOUSE IS FOR US, NOT A FIRM WHICH LOOKS UPON CHEMISTS AS A SMALL SECTION OF ITS CUSTOMERS, BUT A FIRM WHOSE WHOLE INTERESTS ARE BOUND UP IN PHARMACY, WHOSE AIM IS TO SUPPLY THE RETAIL CHEMIST WITH ALL THE GOODS HE DEALS IN ON THE SUNDRIES SIDE OF HIS BUSINESS, AND WHOSE PROSPERITY DEPENDS ON HIS SUCCESS.

THAT IS WHY WE LIKE TO BE DESCRIBED AS A DRUGGISTS' SUNDRIES HOUSE. WE THINK THE DESCRIPTION HELPS TO REMIND OUR CUSTOMERS THAT WE ARE LOYAL TO PHARMACY, THAT GOODS BEARING THE NAME OF MAW, OR ANY OF OUR TRADE MARKS, ARE SUPPLIED ONLY TO PHARMACISTS.

*If you are interested in the future of
pharmacy, support the House that is loyal
to the best interests of the craft.*

MAW·LONDON & BARNET

ANTISEPTIC CREAM FOR THE SKIN AND COMPLEXION

Invaluable during the Summer months for Soothing and Protecting the Skin, rendering it soft and supple. Useful either as a Day or Night Cream.

1-oz. 8/6 per doz. pots. 2-oz. 15/- per doz. pots. 4-oz. 25/- per doz. pots.

New and Attractive Show Card, FREE.

CHEMIST'S OWN NAME AND ADDRESS PRINTED FREE ON 3 DOZEN.

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G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to :

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OVER 53% !! This Profit on your outlay is guaranteed to you by **The FLEET Blade**



A Sheffield
Product from the
Molten Steel to the
Finished Blade.

Retails at 3 for 7½d.

Liberal trade-making samples
given to new stockists.

Bonus offered for Window
Displays.

Sample and terms from sole makers :—

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IT WILL PAY YOU TO
BUY 'OCEAN' BLADES
NO BETTER BRITISH-MADE BLADE ON THE MARKET

8/- PER
GROSS

125% PROFIT
SAMPLES FREE
to genuine enquirers

Scientifically made of
first quality Steel, in
our own British factory. The Blade
that builds permanent custom. Millions
in use. Handsome profit and no risk.
Attractive Showcards. Stocked by leading
wholesalers. If any difficulty, write
direct, enclosing cheque or P.O. to—

OCEAN BLADES (Gt. Britain), LTD.

Sales Dept., 1-6 Bridgewater Place, London, E.C.1. Clerk. 6257
Blades made under Customers' Own Name. State quantity.



CONQUEROR BLADES 5/6 Gross
Retail 12 for 1/-.

The finest and swiftest selling penny
blade on the market. Made of the best
Silver Steel. (Free Samples on request.)

**RODGERS
QUALITY**
—and the lowest
price in Sheffield!

Rodgers Scissors have always sold
on quality, now they sell on price
as well. The card illustrated costs
you 6/6 and the scissors sell at
prices ranging from 1/4 to 2/2,
showing you a net profit of 3/3
per card. Buy British and help
to reduce unemployment and
taxation.

Order Card No. E 7174/C.D.,
and see how the scissors sell
themselves.

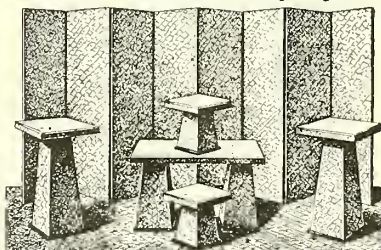
Joseph Rodgers & Sons, Ltd.
Cutlery to His Majesty,
SHEFFIELD.



4½ in. 10/4
5 in. 10/9
5½ in. 11/9
6 in. 13/6
6½ in. 15/3
7 in. 17/-
per doz.

This
CARD
6/6

Something New for Your Counter
or Window Display.



DUDLEY & COMPANY LTD.

Holloway Road, London, N.7
City Showrooms - - 65/66 Fore Street, E.C.

**Dudley's Regal
Display Set**

No. C.D.F. 5143

A unique set which
is ideal for the dis-
play of Toilet Pre-
parations, Perfumes,
etc. It consists of 1
Folding Background,
5' 4" x 30" (in 2
pieces), together with
6 Artistic Pedestals,
2 14", 2 10", 2 6".
Constructed through-
out of stout millboard
covered in
"Regal"
grained
gilt paper. complete

22/6

Your Customers' Hair needs
SILKODONO YOUR
PROFIT

80%

There is no preparation on the
market to beat **SILKODONO**
for Dandruff, Scalp Irritation,
Falling Hair : **SILKODONO**
greatly encourages the growth
of the Hair, and as for Easy
Setting and Beautifying the
Wave, you need only try it
and you will never use any-
thing else.

**PRICES AND BONUS :
SILKODONO,**

1/6 size - 12/- per doz.
2/6 " - 20/- "
4/6 " - 36/- "
2 FREE Bonus with
each dozen.

SILK'S TOILET Co., 8 & 9 Red Lion St., London, W.C.1

"HARLENE"

HAIR TOILET PREPARATIONS

occupy an unrivalled position. Famous for over 40 years for their quality and efficacy they enjoy a continuous and regular demand.



Thousands daily practise
"Harlene-Hair-Drill."

"HARLENE"
HAIR GROWER

"CREMEX" SHAMPOO

"UZON" BRILLIANTINE

"HARLENE"
WAVE SETTING LOTION

"ASTOL" for GREY HAIR

STOCK

these
LINES



EDWARDS "HARLENE"
CAMOMILE

Golden Hair Wash

In three sizes, 1/3, 3/- and 5/-.
Featured in our Advertising in
conjunction with EDWARDS
"HARLENE" LIQUID
SHAMPOO in one size only
at 1/3 per bottle. Making a
special appeal to the Fair-
Haired Lady and creating a
new fashion

"Sunshine Blonde"

"JUNOFLORES"
Spring Breath
TABLETS

A scientific breath and mouth deodorizer.
NOT a scented cachou. In tins, three
sizes, 7½d., 1/1½d., and 3/-

DENTIFRICE

An ideal Teeth Cleanser possessing
similar breath purifying properties. In
tubes, two sizes, 7½d. and 1/1½d.

SKIN CREAM

An excellent quality Cream with a
discreet perfume. For night use. In
dainty green jars, price 1/3d.

VANISHING CREAM

An excellent Vanishing and Cleansing
Cream for day use. In pink jars,
price 1/3d.

There is always an
extensive Advertising
Campaign in operation
for "Harlene" Hair Toilet Preparations
in the National and Periodical Press. Secure your share of this
business by maintaining a full range of these Best Sellers in stock

EDWARDS HARLENE LTD.

20/26 LAMB'S CONDUIT STREET, LONDON, W.C.1

CHATELAIN'S SCIENTIFIC REMEDIES

URODONAL For Rheumatism, Gout, Gravel, etc. 3/-, 5/- & 12/-	JUBOL For Constipation 1/3, 3/- & 5/-	JUBOLITOIRES For Hæmorrhoids 3/-	GLOBEOL The most powerful tonic in the world TABLETS LIQUID 3/- 5/-
SINUBÉRASE A scientific remedy for Indigestion IN TUBES 3/-	DIGERONAL For affections of the stomach and digestive tract In two flavours—chocolate and peppermint 3/-	JUBOLITAN Ointment for the treat- ment of Internal Hæmorrhoids 3/-	FOGYL (BRAND) For Throat Trouble, Hoarseness, Catarrh, etc. 1/3

SPECIAL NOTE—No change has been made in the retail or wholesale prices of these remedies in spite of the difference in the exchange.

SEE THAT YOUR STOCK IS FRESH AND THAT IT BEARS THE
NAME OF THE SOLE AGENTS



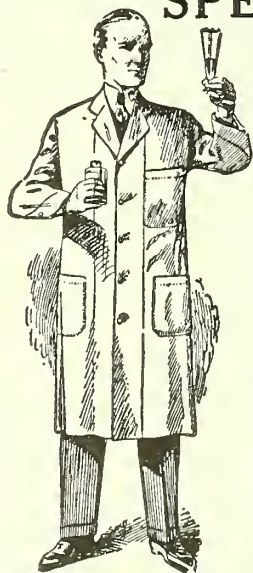
SPENCER & CO.

20 Queen Street, Hammersmith, London, W.6

Telephone : RIVERSIDE 1712

All goods bearing our name or stamp will be exchanged by us if returned unsoiled at any period.

OVERALL SPECIALISTS



WHITE DRILL JACKETS
 4/6, 5/11, 7/11
KHAKI DRILL JACKETS
 8/6, 10/6
BLACK or GREY JACKETS
 8/6, 12/6
FULL LENGTH COATS,
WHITE
 5/11, 7/6, 9/6, 11/6, 12/6
FULL LENGTH COATS,
KHAKI
 5/11, 6/11, 8/6, 9/6, 11/6
FULL LENGTH COATS,
GREY
 7/6, 9/6, 11/6
FULL LENGTH COATS,
BLACK
 14/6
DENTISTS' COATS,
WHITE, STAND COLLAR,
BUTTON on SHOULDER
 12/6, 14/6, 16/6
SURGEONS' "OPERATING" COATS, WHITE
 12/6, 14/6

Jackets and Coats of very superior quality. Made from most reliable materials. Stock sizes 34 to 44 chest. Special prices for large quantities. Postage on single garment, 6d. Orders for 20/- Post Free.

Telephone : Bishopsgate 6751.

GARDINER

& CO. (The Scotch House), LTD.

1, 3, 5 Commercial Road, ALDGATE, E.1

THE WINNING DISPLAY

in the Window Dressing Competition at the Chemists' Exhibition was by Messrs. McCURE YOUNG & Co., Ltd.

Manufacturing Chemists,
London, S.W. 13. ALL THE LABELS & SHOWCARDS used were designed and printed by us.

May we have your next Label or Showcard Enquiry?

JAMES TOWNSEND & SONS,
EXETER;

And 54, Farringdon St., E.C. 4.

MEDWAY

CORRUGATED PAPERS

(in rolls up to 78 inches wide)

PIECES, BOARDS & BOXES

*All corrugated productions
are manufactured from our own British made
strawpaper, produced from British
raw materials only.*

The Medway Corrugated Paper Co. Ltd.

London:
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Telephone : Central 8482
Telegrams : "Corrugated
Lud, London."



Provincial:
Tovil,
Maidstone,
Kent.

Telephone : Maidstone 4168
Telegrams : "Corrugated
Tovil."

VA there is an
IMPORTANT
ANNOUNCEMENT
on Page **3**

NEPENTHE

THE SAFEST AND BEST PREPARATION OF OPIUM.

The word "Nepenthe" is registered under the Trade Marks Act, and is our exclusive property. No substitute may be dispensed when "Nepenthe" is ordered in a prescription. "Nepenthe" comes within the regulations of the Dangerous Drugs Act, 1920.

FERRIS & COMPANY, LIMITED, BRISTOL.

Increase Your Developing and Printing Service!

Make use of our really useful series of D. & P. books, also our Printed Aids to Selling.
Interesting range of samples post free.

BURALL BROS. The Patent Label Factory,
WISBECH, CAMBS.

COMPOUND ESSENCE for EAU de COLOGNE LUX

Prepare high class Eau de Cologne With
ESSENCE COMP. pour EAU DE COLOGNE LUX "ESPERIS."

From The Fresh & Best Italian Oils

One dose per pint: - 100 Grs. for 12 Postfree

ESPERIS - Via Bollo, 4 - MILAN (ITALY)

"VITAMIN TESTED YEAST"

Yeast specially prepared for medicinal purposes.

GUARANTEED ABSOLUTELY PURE.

MIDDLEY & PARKINSON, LTD.
WARREN WORKS, PUDSEY, LEEDS.

IONIZED IODINE

(MOLSON BRAND)

Obtainable from the usual wholesalers or the makers

MOLSON IONIZED IODINE CO. Ltd.

34 C, GABRIEL'S HILL, MAIDSTONE

CANADA BALSAM

C.I.F. PRICE QUOTED UPON REQUEST

N. C. POLSON & CO., LTD.

— Established 1877 —

MONTREAL, CANADA

Cables: POLDRUG—MONTREAL

SALES OF "TENZ" TAKE AWAY THE BREATH

"Tenz," the tablets that sweeten the breath without scenting it, are being used by people in every walk of life.

"Tenz" Antiseptic Tablets instantly remove all odours from the breath. There is a universal demand for this line. Keep the dainty Display Box on your counter, and get your share of the sales. Sells at 3d. per tube and shows big profits. Order direct or from your usual Wholesaler.

Tenz Manufacturing Co., 8 Fairfield St., Manchester

LONDON COLLEGE OF PHARMACY

(Founded by H. Wootton, B.Sc.) C. W. Gosling, Ph.C.
Principal: **IRVINE G. RANKIN, B.Sc., Ph.C.**

SPECIALISTS IN TRAINING PHARMACISTS.

REVISION COURSES.

PRELIM. SCI.—C. & D. Qualifying. Full 10 weeks' revision courses commenced on JULY 6.

Special short revision courses commenced on AUGUST 3.

For September Examinations.

Next Session will commence on Oct. 5.

Preparatory Postal Study available at any time before entering College.

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MANY SUCCESSES IN THE EXAMINATIONS

Your Opportunity to

QUALIFY IN OPTICS

PRACTICAL WORK. Personal tuition in the practical work is a distinctive feature. Students can avail themselves of the practical classes held during examination times when they are in London.

Expert Tuition for the **SIGHT-TESTING DIPLOMAS** of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.)

Write for full particulars—

G. A. SCURR, M.P.S., F.S.M.C., F.B.O.A., F.N.A.O., B.Sc., F.I.O., F.C.O.
50 HIGH STREET, BARNET, LONDON, N.



SHADEINE FOR TINTING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 8d. per doz. — — — 6/-
1/4 size, per doz. — — — 12/-
2/6 size, per doz. — — — 24/-
3/9 size, per doz. — — — 36/-

The SHADEINE Co. 58, Westbourne Grove, London, W.2

Cachet CLOSING and FILLING machines

4/6 to 47/6

to suit all Dispensing Requirements.

WRITE FOR ILLUSTRATED LIST.

THOS. CHRISTY & CO., 4-12 Old Swan Lane, LONDON, E.C.4.

SHOWS A BIG RETAIL PROFIT SUNDOWN

The New "CALVERT"
preparation for
keeping midges away

RETAIL **6^d** A TIN

WHOLESALE PRICE **3/6** PER DOZ.

Subject to quantity discounts.

For further particulars write to—

F. C. CALVERT & Co. Ltd.
MANCHESTER

*Steady
advertising*

*Steady
sales*

DINNEFORD'S PURE FLUID MAGNESIA

£3 order will now secure
our best terms

Min. Retail	Min. Wholesale
1/3	10/6 per dozen
2/6	21/0 "

Minimum Quantity £3 assorted
Carriage Paid Home

Manufactured in London for over 100 years
British owned :: British made

DINNEFORD & CO., LTD.
12 Clipstone Street, London, W.1

Telephone: Museum 1776

★ *Of interest
to manufacturers*

NUMOL

NUMOL LTD. have recently increased their factory accommodation at Newcastle-on-Tyne and are prepared to consider taking over a business manufacturing products to be sold through chemists. Replies should be marked Confidential and addressed to the Secretary, Numol, Limited, 46, 48 and 50 Elswick Road, :: :: Newcastle-on-Tyne :: ::



The BIG-SIX SELLING LINES

HANSLICK The Ideal Hand Cleanser in powder form. Non-injurious to the skin, antiseptic. In 2d. packets, 6d. and 9d. tins.

Trade price - - - 1/4, 4/- and 6/- per dozen.

SULOGEL Colloidal Bath Sulphur. Soluble in water, and very effective for all skin diseases and rheumatic affections. 9d. per pot or 4/- per box of 6 pots. Trade price 5/4 per dozen pots.

YEARBY'S SKIN EMOLLIENT for whitening the skin. In 6d., 1/- and 1/9 bottles. Trade price - - - 4/-, 8/- and 14/- per dozen.

JUSTYT FOOT BATH SALTS Gives instant relief for tired and aching feet. In 3d. and 6d. packets. Trade price 21/- and 42/- per gross.

SCOTT TISSUE Absorbent, white, soft toilet roll. Wrapped, 1000 sheets to the roll. Retail price 7½d. Trade price 5/- per dozen. **WALDORF Toilet Roll.** Retail price 5d. each. Trade price - - - - - 3/6 per dozen.

TORRIDAIRE HEAT PAD Scientific Heat Pad. Requires one tablespoonful of cold water only, to give effective heat for twelve hours. 6/6 each. Trade price £2 12 0 per dozen.

THE T.P. COMPANY
5 KINGSLAND ROAD, E.2 Clerkenwell 8951

STIMULATING CHRISTMAS TRADE

AT this time of the year wholesale and retail buyers at Home and Overseas are looking out for novelties, and particularly for attractive lines in perfumery, toilet soaps, boudoir accessories in silver-ware and other fancy articles of various kinds.

These are especially suited for stimulating business during the festive season, and the Special Supplement to be distributed with

THE CHEMIST & DRUGGIST

OF SEPTEMBER 24, 1932

will be found helpful to buyers and sellers alike of such merchandise.

A SUPPLEMENT WILL BE PRINTED IN COLOURED INK ON TINTED IMITATION ART PAPER, THUS ADVERTISERS CAN SECURE EXCELLENT EFFECTS WITH THEIR USUAL HALF-TONE OR LINE BLOCKS.

THERE WILL LIKEWISE BE A SUPPLEMENT IN PHOTO-GRAVURE.

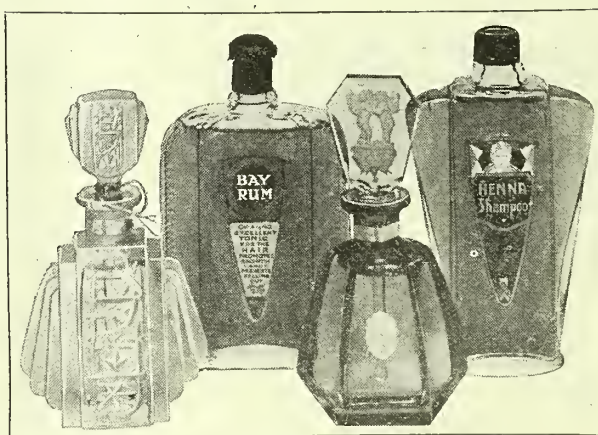
PARTICULARS REGARDING AVAILABLE SPACE, CHARGES, ETC., FROM

THE PUBLISHER

THE CHEMIST and DRUGGIST
28 ESSEX STREET, STRAND
LONDON, W.C.2

'PHONE :
Central 6565 (8 lines)

'GRAMS :
"Chemicus, Estrand London"



BRANCH OFFICES :

49 COUNTY BUILDINGS, CANNON STREET
MANCHESTER

19 WATERLOO STREET, GLASGOW

54 FOSTER'S BUILDINGS, HIGH STREET
SHEFFIELD

MELBOURNE AND SYDNEY (AUSTRALIA)
AUCKLAND (NEW ZEALAND)



BEECHAM'S PILLS

Worth a Guinea a Box.

BEECHAM'S POWDERS

Act like Magic.

Many Chemists and Druggists are now reaping the benefits of a 38% profit on cost on Beecham's Pills and Powders. The reason for this is that recently we introduced a

£2 PARCEL

for either Beecham's Pills or Beecham's Powders or assorted Beecham's Pills and Beecham's Powders. The £2 parcels can be obtained direct and carry a 2½% cash discount together with a further 5% discount for window display, carriage paid—packing free—monthly account.

ADVERTISING

Strong, virile and forceful advertisements in an extensive and continuous advertising campaign are appearing daily in the most important papers throughout the country. Every day they are selling *more* of our products and ensure a constant demand. House-to-house distributions augment the Press advertising throughout the British Isles, and show material is available for use in *your* shop or window, or on your counter.

Keep yourself well supplied with Beecham's Pills and Powders and reap the benefits to be derived from these fast moving lines.

BEECHAM'S PILLS LTD. ST. HELENS, LANCs.

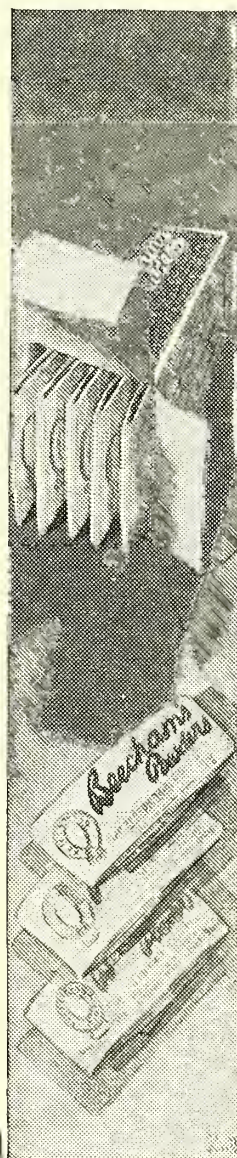
'Phone : No. 2241 St. Helens. 'Grams : Beecham, St. Helens

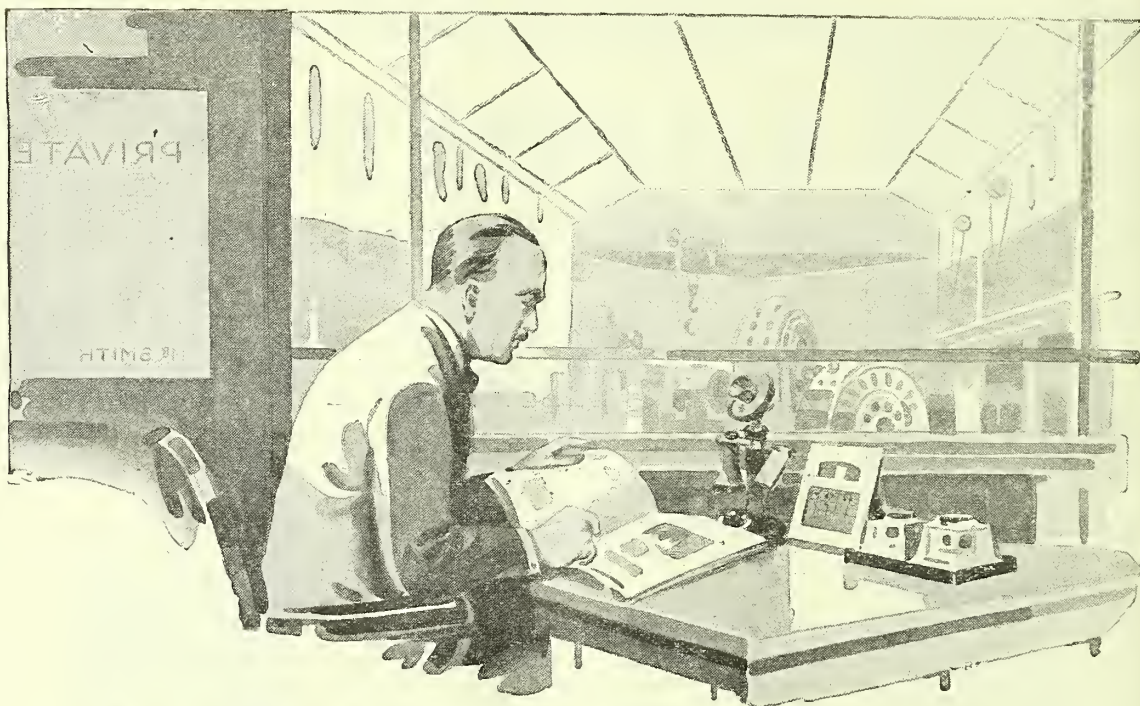
STOCK MORE —

SHOW MORE —

SELL MORE

**BEECHAM'S PILLS and
BEECHAM'S POWDERS**





An open letter – to the manufacturer who “doesn’t believe in advertising”

DEAR SIR : It is difficult to write this letter to you because, as a matter of fact, you don’t exist. Like every other business man, you use and *depend on*, advertising. You may not know it, but you do. Every letter you write to a prospective customer is an advertisement, every call your travellers make is an advertisement, your plant is an advertisement, your products themselves are an advertisement once they have left your Works. For advertising is the art and science of “making known” and if you did not make known your products, whether they be battleships or shuttlecocks,

suspension bridges or suspenders, no one would ever buy them.

As your business would be impossible without advertising in some shape or form, is it not worth your while to take advantage of those methods of publicity which have proved their soundness in all branches of commerce through a generation or more of drastic testing? Is it not worth your while to discuss the matter with an expert whose whole existence depends on his ability to create sales for his clients? Call on such a man without delay, discuss your problems with him frankly, and let him be the architect of your greater fortune in the brighter days which lie ahead.

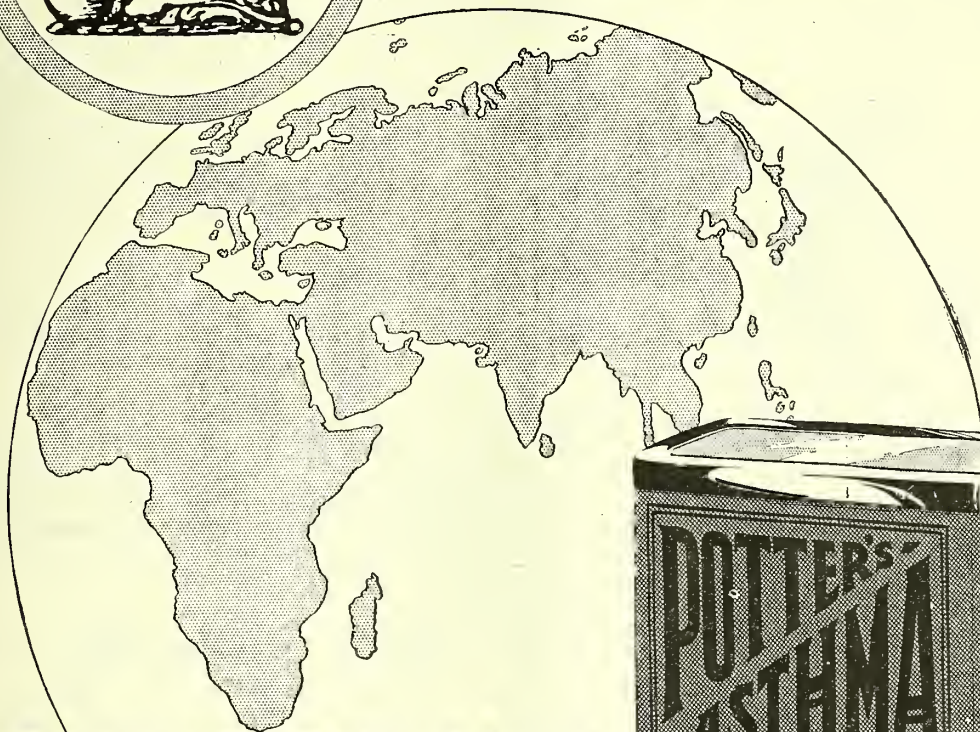
It pays to

Issued by The Institute of Incorporated Practitioners in Advertising, 3-4, Clement's Inn, W.C. 2, in conjunction with the Federations of Master Process Engravers and Master Printers, etc.

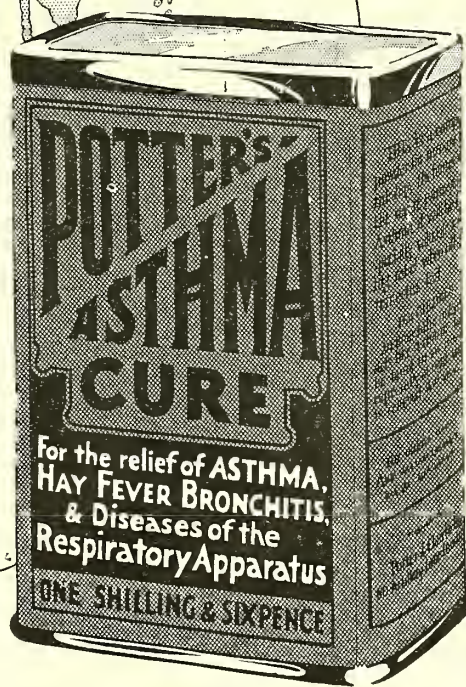
ADVERTISE



a
world wide
reputation



POTTER'S ASTHMA CURE



Potter's Asthma Cure is consistently advertised in all the great national newspapers, thus ensuring a big demand.

Retail 1/6 P.A.T.A. Wholesale 14/- per dozen.
Packed in half dozens.

POTTER & CLARKE LIMITED
Drug Merchants --- Manufacturing Chemists

60, 62, 64 ARTILLERY LANE, LONDON, E1

Phone:- Bishopsgate 4761-5 lines

Grams:- Horehound, phone London, (2 words.)

and 24, LUNA STREET, GREAT
ANCOATS STREET MANCHESTER

Phone:- Manchester City-6048. Grams-Horehound, Manchester

The public remember
when they
pack their kit
that . . .



ENO'S 'Fruit Salt'

keeps them fit!

AND you should
remember to

see that

your stocks of

ENO are

sufficient for

the heavy holiday
demand

Display ENO
NOW
It will pay you

A NEW & PROFITABLE
LINE *for chemists only.*

EASOFF CHEWING GUM

made with cinchona bark, is sold only by chemists. Many are proving every day that it brings new customers into their shops who often become regular callers. EASOFF sells readily to the middle-aged, to athletes, hikers, etc., and is a boon to heavy smokers. It shows a good margin of profit. Order a trial box for display and prove how EASOFF draws customers. (Patent 343,242.)

FROM

Butler & Crispe, Clerkenwell Road, E.C.
Edwards, William, & Sons, 14/18 Nile Street, City Road, N.1
May, Roberts & Co. Ltd., 7/13 Clerkenwell Road, E.C.
Sangers Ltd., 258 Euston Road, London, N.W.1
Ferris & Co. Ltd., Union Street, Bristol
Hodders Ltd., Nelson Street, Bristol
Pinkerton, Gibson & Co. Ltd., 13 Queen Street, Edinburgh
United Chemists' Association Ltd., "Ucal" Works, Cheltenham
Southall Bros. & Barclay Ltd., 19/21 Lower Priory, Birmingham

MEL ROSE— NEW CENTURY CREAM

With all the Mel Rose curative properties, also an effective remedy for Sunburn troubles (sore skin, blistering, etc.), quickly restoring skin to normal condition. A little used prior to exposure to the sun, eliminates all the usual discomfort. Sold in tubes of convenient size and shape for the
handbag. - - Price 6d. & 10½d.

MEL ROSE— CREAM

Sold in jars for the dressing table. Contains all the remedial properties of the tablet made up in softer form 9d.

MEL ROSE— TABLETS

There is a demand for this product during the summer for keeping the skin in good condition 2d. & 4½d.

FOR YEAR ROUND SALES
STOCK MEL ROSE PRODUCTS.

ROBERTS & SHEPPEY Sole
Manufacturers
2 SKIPTON STREET, LONDON, S.E.1

Your customers know the danger of gnat and mosquito bites



Recent fatalities, caused by neglected gnat or mosquito bites (*see Press reports*), emphasise the necessity for the more general adoption of protective measures.



Reduced facsimile

DISPLAY AND RECOMMEND

TRADE
MARK

'SKETOFA' BRAND

AROMATIC CREAM

Not only protects the user from bites of midges, gnats, sand-flies and mosquitoes, but soothes the irritation of bites inflicted when protective measures have been neglected.

Prices in London to the Trade Collapsible tubes at 12/6 per doz. (subject)

Showcards will be sent free upon request



BURROUGHS WELLCOME & CO.
LONDON

A LIGHTNING
SALES
PRODUCT

UCAL
HEALTH
SALT



7¹/₂ D. SIZE 4/6 DOZ.
6 DOZ. 4/- "
GROSS LOTS 3/9 "

1/- SIZE 8/- "
3 DOZ. 7/6 "

Puts a sparkle
into your sales
and keeps the cash-
register working

PLENTIFUL WINDOW
DISPLAY MATERIAL

"UCAL"

CHELTENHAM
LONDON, Keith Grove, W.12

Phone 3021
Shepherd's Bush 3437

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,
The Chemists' and Druggists' Society of Ireland, and of
other Chemists' Societies in Overseas Dominions*

PUBLISHED AT

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London"

Telephone: Central 6565 (8 lines)

BRANCH OFFICES

4 CANNON STREET, MANCHESTER (TEL.: BLACKFRIARS 3052)
19 WATERLOO STREET, GLASGOW (TEL.: CENTRAL 2329)

54 FOSTER'S BUILDINGS, HIGH STREET, SHEFFIELD (TEL.: 22458)
99 QUEEN STREET, MELBOURNE, AUSTRALIA

VOL. 117 NO. 2740

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News of the Week

Import Duties Act

The Import Duties Advisory Committee have received notice of applications for the addition of the following goods to the Free List:—Bismuth metal, ipecacuanha root. Any representations which interested parties desire to make in regard to these applications should be addressed in writing to the Secretary, Import Duties Advisory Committee, Caxton House (West Block), Tottenham Street, London, S.W.1, not later than August 22.

The Committee announce that they have decided not to make any recommendations in respect of the applications previously advertised for the imposition of increased duties on glacé kid and on gold leaf, and for the addition to the Free List of magnesium metal and magnesium alloys.

Merchandise Marks Order

The Merchandise Marks (Imported Goods) No. 9 Order, 1932 (Stationery Office, 1d.), dated July 21, prohibits the sale or exposure for sale in the United Kingdom of any imported cases for portable electric lamps, lanterns or torches containing or intended to contain the dry or secondary battery, unless they bear an indication of origin. The indication of origin must be impressed, incised or embossed on each case; provided that where any case which was imported before the date of the coming into force of this Order is sold or exposed for sale before January 1, 1934, it shall be a sufficient compliance with this Order if the indication of origin is borne on the container in which it is sold or exposed for sale or, where there is no such container, on a label securely attached to the case. Goods to which this Order applies shall bear the indication of origin provided on exposure for sale wholesale whether or not the person exposing the goods is a wholesale dealer. The Order comes into force on January 1, 1933.

Society of Apothecaries of London

At the dispensing assistants' examination, held on August 2, 3, 4 and 5, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:—

Ashcroft, M.	Harland, M. L.	Rickard, K. M.
Bannister, J. M.	Hefford, G. A.	Rigby, B. M.
Barnardo, R. E.	Hignell, R. M.	Roberts, G. M.
Beale, J.	Hook, F. M.	Ross, D. L.
Belton, E. E.	Hurcombe, P.	Rudge, M. E. J.
Bisson, M. R.	Jackson, M. D.	Shaw, K. M.
Blair, I. I.	Jones, R. K.	Shore, A. J.
Branson, E. C.	Kilby, E.	Smith, E. A.
Carter, E. G.	King, E. E.	Spellen, K. M.
Church, E. J.	Levy, T. S.	Spence, J. E. L.
Corin, A. M.	Macdonald, M. C.	Tilt, A. V.
Davidson, G.	Marston, K.	Townend, E.
Davies, A. M.	Maud, R. A.	Tuting, L. M.
Davies, T.	Miller, E. B. L.	Warner, M. A.
Davis, P. A.	Moody, I. B.	Watson, E. B.
Dickinson, C.	Nelson, M. S.	Watson, E. M.
Dixon, C. E.	Newcombe, M. E.	Whitehouse, W.
Ford, P. A. G.	Patenall, J. M.	Whitley, V. E.
France, M.	Peacock, M. A.	Wier, M.
Gavin, C. E.	Phillipps, D. A.	Wiles, E.
Goode, C. F.	Polley, L. M.	Williams, M. N.
Hardman, A. M.	Ponsford, M. E.	Yeomanson, L. F. M.

National Mark Malt Extract

The Ministry of Agriculture and Fisheries has issued a circular, dated August 9, calling attention to the advantages of giving prominence to National Mark malt extract and malt extract with cod-liver oil during the coming autumn and winter. Most of the leading manufacturers of malt extract have been authorised to apply the National Mark label to their product, and with a

view to assisting the development of the scheme and of meeting the convenience of the distributive trade the Ministry of Agriculture is prepared to consider the incorporation of the National Mark in the retail chemist's label. To assist chemists to bring this standardised English product to the notice of the purchasing public attractive display material and a leaflet can be obtained free of charge from the Ministry of Agriculture, 10 Whitehall Place, London, S.W.1.

Inquests

At Sheffield, on August 5, the widow of Dacres E. Olivier, concerning whose death an inquiry was held, stated that her husband had taken opium for a long period. He took a dessertspoonful of a dilute solution before every meal. The verdict was that the deceased died from disease of the heart muscles brought about by gall-stones and by taking opium for many years.

At an inquest held at Surbiton, on August 3, on the body of George Ling, a caretaker eighty years of age, a medical witness stated, as the result of a *post-mortem* examination, that the cause of death was heart failure, hæmorrhage of the bladder and spleen, purpura, and an enlarged prostate. He felt sure that the hæmorrhage was due to taking pills supplied by a chemist, but he (witness) did not know what was in the pills. The coroner recorded a verdict in accordance with the medical evidence.

Sheffield

The local delegates to the Aberdeen meeting of the British Pharmaceutical Conference are Messrs. Crowe, Hewitt, Hobson and Matthew.

A sports section is being formed in connection with the local branch of the Pharmaceutical Society. Members wishing to join should communicate with Mr. Kirman, 49 Church Street.

Miscellaneous

CONTRACT.—Lichfield City Council has accepted the tender of Boots, Ltd., for drugs, etc.

IN THE COURTS.—At London Sessions, on August 9, Richard C. R. Allerton, manufacturer, Cudham, pleaded "Guilty" to obtaining credit to the extent of £25, £27, and £184 from three firms without disclosing the fact that he was an undischarged bankrupt. It was stated that the defendant had carried on business as the Hilda Chemical Co. at Finsbury Pavement, E.C. He was sentenced to two months' imprisonment in the second division.

Scottish Notes

Brevities

The examination for the Kinninmont scholarship will be held in September. Entries are invited from assistants and apprentices in the Glasgow and S.-W. Scottish area who have passed the Preliminary Scientific examination. The scholarship, of the value of £10 10s., is tenable at the Royal Technical College School of Pharmacy for the Qualifying examination classes. Any further information will be given by Mr. H. P. Arthur, 361 Victoria Road, Crosshill, Glasgow, S.2.

We are informed, with reference to the Aberdeen meeting of the British Pharmaceutical Conference commencing on September 12, that no more rooms can be booked at the Caledonian Hotel or the Palace Hotel; other hotels in the published list still have rooms available. Visitors intending to travel from London by sea can join the s.s. "Lochnagar" at Aberdeen Wharf, Limehouse, E., before 8 p.m., on September 10, or embark at Westminster Pier in the tender "Ich Dien," which leaves the Pier at 7 p.m. The "Lochnagar" arrives in Aberdeen about 10 a.m. on September 12.

Irish Notes

Irish Free State Imports

Official trade figures bearing on the imports included in the Chemicals, Drugs, Perfumery, Dyes and Colours section of the Free State returns show a fall in quantity and value for the month of June, but for the half-year to June 30 they are better than for the corresponding six months of 1931. The following is an abstract for the six months of each year:—

		1931	1932	1931	1932
				£	£
Copper sulphate ..	tons	2,185	3,181	39,486	47,174
Disinfectants, insecticides, etc. ..	cwt.	15,531	16,447	38,466	37,033
Sodium compounds ..	"	155,234	179,412	57,542	63,963
Chemical manufactures and products ..	"	—	—	89,544	96,638
Perfumery, cosmetics, etc. ..	"	—	—	43,630	58,299
Medicines and medicinal preps. ..	"	—	—	192,448	185,787
Dyes and tanning materials ..	"	3,291	3,474	15,590	15,950
Total, including paints, etc. ..		—	—	610,193	655,528

Harold's Cross (Dublin) Fianna Fail Club has adopted resolution calling on the Government to compel manufacturers of proprietary foods to display their formula on the label or package and on all advertisements relating thereto, and calling for a tax of 50 per cent. on all forms of publicity by foreign firms.

Sporting Events

For the first time in the history of the Manchester and District Pharmacists' Golf Society the members were invited—on August 3

—to compete for a prize on the Blackley Golf Course. Nearly twenty members turned up to enter for the prize offered by the captain (Mr. S. N. Bostock), it being won by Mr. A. Maude, with Mr. F. D. Gee second (the third prize in succession Mr. Gee has won). After high tea the president (Mr. J. H. Franklin) expressed his pleasure at seeing so many present. They were grateful to the captain for his generosity in giving the prize. He congratulated Mr. Maude and Mr. Gee. After tea a number of four-ball matches were played, under perfect conditions. The following are the leading scores:—



Photo]

[Cleworth

MR. A. MAUDE

A. Maude ...	88—11=77	P. W. Stuart ...	87—5=82
F. D. Gee ...	93—11=79	H. Woodhead ...	99—17=82
J. W. Aves ...	83—2=81	A. Barnes ...	87—4=83
J. A. Collins ...	81+1=82	S. M. Bostock ...	92—9=83

The annual competition for the London (South-West) Chemists' Association challenge cups was played at New Barnet, recently, by the kind permission of S. Maw, Son & Sons, Ltd. The weather was fine and the sports contested were:—*Gentlemen*, shooting, bowls, golf, putting and quoits; *Ladies*, bowls, golf, putting and croquet. The lady's cup was won by Mrs. F. G. Wells, with Miss Boyes as runner up, while among the men Mr. A. M. Garden was the winner, with Mr. J. Inglis as runner up. A happy day was brought to an end with the presentation of the cups. The sports were organised by the honorary sports secretary, Mr. D. A. Rees.

Imperial and Foreign News

THE business of N. Powell & Co., surgical instrument makers and manufacturing chemists, Bombay, has been converted into a private limited company. This business was started in 1886.

SINGAPORE COMPANY'S DIVIDEND.—The latest annual report of the George Town Dispensary, Ltd., shows a profit of \$40,216. A dividend of 10 per cent. is being paid and \$3,304 is allocated as bonus for the staff.

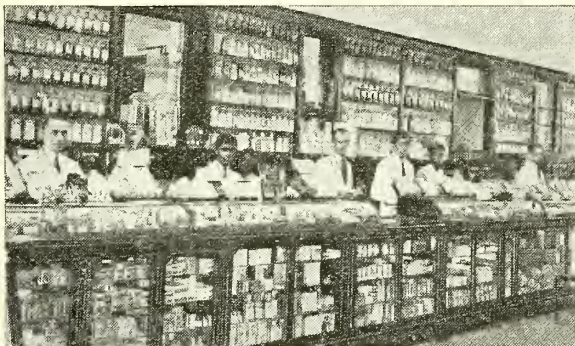
THE Nationalist Government of China is reported to have made its final decision to build a large factory for the manufacture of sulphate of ammonia. It is stated that the proposed company will be capitalised at about 8,000,000 yen.

TURKISH DRAFT NARCOTIC LAW.—According to the first article of a new Turkish draft law, cocaine, opium, morphine, heroin, and their substitutes, cannot be imported, exported, manufactured or sold, except by authorisation of the Minister of Health. Pharmacists and druggists are permitted, under a special regulation, to import and sell these drugs—it is understood without control. The establishment of a laboratory or works for the manufacture of the products mentioned must be specially authorised, and the responsibility of direction placed in the hands of a pharmacist or technical chemist of Turkish nationality.

AN INDIAN RETROSPECT.—Bathgate & Co., manufacturing chemists, Calcutta, have sent us the following, which was published in the "Bengal Hurkaru," March 20, 1821:—"The warehouse of Mr. Bathgate, the ingenious chymist and druggist, in Old Court House Street, was on Tuesday night brilliantly and beautifully

illuminated with gas light, almost the first display, we believe, of this ingenious and valuable invention in India. Crowds of the better description of natives flocked round the place, expressing their admiration at the beautiful contrivance. Englishmen cannot see such a spectacle in these remote parts of the world without indulging for a moment an honest feeling of pride and exultation, on reflecting that they are both the discoverers and propagators of all those inventions of unquestionable utility, which in our own times have exhibited palpable conviction of the value of art and science, to tribes of nations who scarce knew the names of our sires and grandsires. We have to see the use of the gas lights become soon very general."

A Colombo Pharmacy



Photo]

[Buchler

AN INTERIOR VIEW OF THE PHARMACY OF GARGILLS, LTD., CHEMISTS, COLOMBO, CEYLON

Topical Reflections

By Xrayser

Academic Pharmacy,

or university recognition of pharmaceuticals as a subject of study, seems likely to become established in this country in due course, and it is interesting to find Northern Ireland taking its first steps in the direction of enabling pharmacy to make use of university training and acquirements (*C. & D.*, August 6, p. 137). I am glad to observe that the degree which is being granted by the Queen's University of Belfast is that of Bachelor of Science in Pharmaceutics, as I am firmly of opinion that a science degree in pharmaceuticals is infinitely preferable to a degree in pharmacy, such as is favoured in this country. I am convinced that nothing like the same value will in time attach to degrees in pharmacy, commerce, etc., as to degrees in science awarded on the basis of general scientific knowledge, including pharmacy or some other specific subject.

Field Botany,

is far from being everyone's fancy; and though I probably did much more than the average pharmacist in the way of scouring the countryside for botanical specimens before I became legally qualified as a chemist and druggist, I should be surprised to find many apprentices or assistants taking up the study of field botany nowadays. There was a special appeal about the subject in bygone days, when our predecessors collected plants possessing medicinal virtue and dried them for future use, or made recognised galenic preparations from them. That incentive, however, is now lacking, and the number of field botanists in pharmacy cannot be great at the present time. Scotland probably contributes more than its quota to this

interesting group, but even Mr. James Jack admits the difficulty of the position so far as the collection of herbaria is concerned (p. 138). He has suggested that more apprentices might enter the Pharmaceutical Society's herbarium competition if the age limit for the examination were raised, but it may be thought that the age limit is already high enough at twenty-one years. Apprenticeships must, surely, terminate at or before that age, and it would seem to be contrary to the spirit of what was intended if persons over the age of twenty-one were allowed to compete with apprentices.

The Tributes

to the late Mr. Walter Hills in your issue of July 30 (p. 111) and elsewhere were a fitting commemoration of the life and work of a pharmacist esteemed alike for his personal qualities and for his services to pharmacy. One feature of these valedictory notices that will bear expansion is the reference to his minority report, dated December 16, 1902, appended to the report of the Departmental Committee appointed in the previous year to consider Schedule A of the Pharmacy Act, 1868. Mr. Hills was appointed to fill a vacancy on the Committee after about half the evidence had been presented; and it must have required courage of no ordinary kind, in addition to a rare mastery of the subject, to undertake at comparatively short notice the preparation of a report which was to run counter to that of his six colleagues. Mr. Hills contended, among other things, "That no real ground is shown for the relaxation of the restrictions imposed on behalf of the public by the Pharmacy Act, 1868"—an observation which, *mutatis mutandis*, is as relevant to-day as it was thirty years ago.

Legal Reports

Pharmacy Acts (Ireland).—In the Dublin District Court, on August 4, Mr. Little delivered a reserved judgment in the case in which Miss R. Tomkin, L.P.S.I., Marino Mart, and her assistants, Miss Rose O'Donoghue and Miss Angela Devine, were summoned on charges under the Pharmacy Act (Ireland) and the Sale of Poisons (Ireland) Act (C. & D., July 9, p. 28). Mr. Little dismissed the case against the Misses O'Donoghue and Devine. The construction he (the justice) put on the relevant section of the Act of 1870 was that if a messenger boy was found to be compounding poisons, it was the boy's employer he would have to deal with. "It seems to me," Mr. Little added, "that is arrant humbug, and is designed to enable unqualified assistants to do certain acts under the cloak of supervision. The Section first of all attempts to create an offence, and then deliberately takes it out and transfers responsibility to someone else. Why are the two employees of Miss Tomkin summoned, when the Act of 1870 says that it is the principal who is responsible?" Continuing, Mr. Little said that the medical evidence on both sides carried the case no further. It was agreed that the Ergo-apiol could only be used for one purpose. There was additional evidence that Mrs. Rutland asked for and was supplied with certain bottles stated to be for an illegal purpose. The defendant, in supplying liquid medicine to the inspector, did what any chemist with sense would do, namely, make up an utterly useless and innocuous bottle, and, later, having been asked for a "stronger" bottle, she added a little "ginger" to it.

PHARMACY ACTS CRITICISED

He attached no importance to the fact that Miss Devine made entries in the prescription-book. "That book," said Mr. Little, "has not been legally defined." Neither had it been provided that only the person legally entitled to keep the shop open should make the entries in it. If the Pharmacy Acts were absurd, it was high time that they were amended. A few days before the summonses were entered, a circular was issued to all retail druggists that Ergo-apiol had been removed from Part II to Part I. That was a significant point. "It has been stated," Mr. Little continued, "that the defendant was absent from the shop on February 15. The defendant denies this. After the bottle was made up on that date, it was open to the inspector to say, 'Where is Miss Tomkin?' It was not done." Dealing with the charge that the name and address of the seller of the Ergo-apiol was not on the containing box and the defendant's answer that the binding tape gave the name and address required, Mr. Little said he had come to the conclusion that the particulars should have been on an adhesive label on the containing box. The defendant's reply to not entering the particulars in the poisons book was that under the Sales of Poisons Act, 1870, and the Pharmacy Act (Ireland), 1875, Ergo-apiol was a patent medicine, and that Section 31 of the 1875 Act stated that the provisions of the Act did not apply to patent medicines. Mr. Kieran's answer was that a patent medicine was a medicine subject to State letters patent, and that did not extend to a proprietary medicine. With a qualification he was inclined to agree with Mr. Kieran. The defendant had claimed that she had been misled by the printed list of the Dublin and Provincial Retail Drug Association; if that was so, then the defendant might have a right of action against them for misrepresentation. He imposed a fine of £5 for each of three offences committed on five different dates, a total fine of £75. He allowed £5 5s. costs and £5 5s. expenses. The defendant was entitled to costs in respect of the summonses which had been dismissed, £22 1s. in all. He had a considerable amount of sympathy with the defendant, but certain statutes were there, and such as they were they would have to be respected.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

REID (CHEMISTS), LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, etc. Solicitors: J. Lord Thompson & Weeks, 30 New Road, Brighton.

OSBORNE BAUER & CHEESEMAN, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers, importers and exporters of and dealers in all kinds of scents, soaps, powders, perfumes, etc.

KEMPAC, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturing chemists at Batley, West Riding, York; to acquire the registered trade mark "Kempac," and to adopt an agreement with Emma M. Coates.

RINGSLADE MANUFACTURING CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in proprietary articles, medical, toilet preparations, etc. R.O.: Ringslade Works, Ringslade Road, Wood Green, London, N.22.

C. CUNNINGTON, LTD. (P.C.).—Capital £100. Objects: To acquire the business of a chemist and druggist carried on by C. Cunnington at 53 Morton Street, Pimlico, as "A. Williams," and at 34 High Road, Harlesden, as "J. W. Robinson." R.O.: 34 High Road, Willesden Green, N.W.10.

COMPANIES DISSOLVED.—Notice has been given in "The London Gazette" that the names of the under-mentioned companies have been struck off the register and the companies dissolved:—Auxiliary Medical Services, Ltd.; Findlay (Chemists), Ltd.; Healing Rays, Ltd.; Hearse's Embrocation, Ltd.; Rutters Cash Chemists, Ltd.; J. Thomas & Son (Cash Chemists), Leyton, Ltd.

COMPANIES WHICH MAY BE DISSOLVED.—Notice has been given in "The London Gazette" that the under-mentioned companies will, unless cause is shown to the contrary, be struck off the register and the companies dissolved three months after August 5:—Clensall Soap Co., Ltd.; Photo Printing Paper Co., Ltd.; Timsons Cash Chemists, Ltd.; United Mining and Chemical Industries, Ltd.

Bankruptcy Reports

Re George Garbutt, 848B, Scotswood Road, Newcastle-on-Tyne, druggist.—The public examination of this debtor was held recently at the Court House, 56 Westgate Road, Newcastle-on-Tyne, when the statement of affairs showed a deficiency of £245 5s. 7d. The debtor stated that he was formerly a druggist's assistant and purchased the business with £50 borrowed from his mother in April 1930. He had realised his position from the commencement of the business. The examination was adjourned.

Re William Ewart Thomas, The Pharmacy, Baschurch, Shrewsbury, chemist and druggist.—The public examination of this debtor was held recently at the Shire Hall, Shrewsbury, when the statement of affairs showed liabilities of £768 18s. 3d. and a deficiency of £686 9s. 10d. The debtor stated that he purchased the business at Baschurch in August 1930 for £360. He was not successful, as he discovered that the grocers in the village also sold drugs and delivered them to customers in all parts of the district with other classes of goods. The examination was closed.

Re Francis William Bidie (described in the petition as Francis Wilson Bidie), 10 Lemon Street, Truro, and Central Square, Newquay, Cornwall, chemist and druggist. The application for discharge herein was heard

recently at the Town Hall, Truro. The official receiver stated that the receiving order had been made in 1929, and a dividend of 5s. 5d. in the £ had been paid to the creditors. The judge asked debtor whether he could make any offer, but he (debtor) did not reply, and the judge then dismissed the application, advising debtor to apply again when he was prepared to make a satisfactory offer.

Re Archibald Henry Stillwell, The Drug Stores, Send, Surrey, photographer and drug stores proprietor.—The adjourned examination herein was held at the Guildhall, Guildford, recently. According to the statement of affairs lodged the gross liabilities amounted to £379 4s. 5d., all of which were expected to rank for dividend. The net assets amounted to £61 15s. 6d., so that there was a deficiency of £317 8s. 11d. The previous hearing had been adjourned, as it was then reported that a friend of the debtor was prepared to pay the debts in full, but that had not materialised. Debtor attributed his failure to "liability for the maintenance of his parents and lack of capital." The examination was further adjourned.

Re Samuel George Davidson Watson, 14 Huntriss Row, Scarborough, chemist and druggist.—The first meeting of creditors in this matter was held recently at the Official Receiver's office, 48 Westborough, Scarborough. According to the statement of affairs submitted the gross liabilities amounted to £476 17s. 3d., of which £365 8s. 5d. would rank as unsecured, and the net assets were estimated to realise £152 9s. 10d., so that there was a deficiency of £112 18s. 7d. Debtor stated that he commenced business on his own account as a chemist at the above address with a capital of £125 in April 1931. During the 1931 season the business was successful, but in October it declined and continued bad throughout the winter. In February last creditors began to press, and debtor endeavoured to dispose of the business, but without success. Debtor said that he did not become aware of his position until about a fortnight before the receiving order was made. He attributed his failure to "lack of capital." The case, being a summary one, was left in the hands of the Official Receiver, as trustee.

Voluntary Liquidation

W. J. Sutcliffe (Southport), Ltd., 70 Eastbourne Road, Birkdale. Chemists and druggists.—The statutory meeting of the creditors was held recently, at the offices of Mr. William Ellis Hopkins, C.A., 39 Fishergate, Preston, when Mr. Sutcliffe, one of the directors of the company, occupied the chair. The statement of affairs showed liabilities of £803, all due to unsecured creditors. The assets comprised fixtures and fittings, £200, put down at £25; stock, £340, valued at £150; sundry debtors, £16 15s. 11d., and cash in hand, 18s., making a total of £192 13s. 11d. After allowing £8 4s. for preferential claims the net assets were £184 9s. 11d., or a deficiency of £618 15s. 2d. The issued capital of the company was £1,200, making a total deficiency of £1,818 15s. 2d. It was resolved that the appointment of Mr. Ellis Hopkins, as liquidator, should be confirmed, and a committee of inspection was appointed, consisting of the representatives of Messrs. Nash, Kenyon & Co., Ltd., the Association of Manufacturing Chemists, and Mrs. Hargreaves.

Gazette

Partnerships Dissolved

WHEATLEY, J. H., and WHEATLEY, MADELINE, 44 Old Road West, Gravesend, chemists and druggists, under the style of M. & J. H. Wheatley, M.P.S.

Spare Time

By Manufacturer

FROM recent correspondence in the *C. & D.* it would appear that some pharmacists have spare time and do not know what to do with it. To have spare time is usually a condition of youth and immaturity; the man or woman who has learnt the art of living finds that the day is never long enough to get into it all that is desired.

Here are a few suggestions for any readers who have time on their hands. It is assumed first of all that the Qualifying examination has been passed and that it is not intended to go on to the Major or its modern equivalent. Presumably business—i.e., the serving of customers and the usual round of work—providing sufficient income for the present. The question now should be: "Am I going to make my business my hobby and put into it all the best of my powers, or is it to be a means of livelihood only, my hobbies being pursuits outside pharmacy?" Here are a few ways of filling spare time when it is decided to make one's business one's hobby.

Two Classes of Hobbies

Read all the trade papers, not only the British but foreign as well. Read the medical journals. Keep in touch with the latest literature on business efficiency and business methods—and this in spite of so much "tosh" that is published along these lines. Attend meetings of the local pharmaceutical associations and do your "bit" in carrying on their work. For those who are content to regard their business as a means of livelihood only and to find their hobbies outside, the following are suggested.

If interested in literature and history, interest yourself in the history of your town. Is there a records society? If not, why not start one? Is your neighbourhood associated with any famous literary or other type of man? If so, dig down into the past: there is still something to be discovered about them that has hitherto escaped their biographer—if they ever had one. If you live in London there are still opportunities of tracing the connection of notable men with your own neighbourhood. Here is a practical suggestion. Spend one early closing afternoon in tracing the connection of Thackeray with the Kensington and Chiswick districts. Visit the house in Chiswick Mall, still standing, where Becky Sharp and Amelia Seddon were at school, the one as pupil and the other as French mistress. Walk down Young Street and notice the house, marked by a plaque, where Thackeray lived for many years, and finally turn your steps up Palace Green and find the house in which he died. Similar walks and investigations are waiting for those who are interested, all over London and in the provinces as well.

For those of a scientific turn of mind microscopy can be recommended: the pharmacist will already have some knowledge of it. Astronomy is another science, the study of which is wonderfully calming to the tired business man. The study of biology can also be recommended. Art also has its devotees, and many more could devote themselves to it. With regard to music, it is a thousand pities that "canned" music and the radio have killed in so many the desire to play some instrument.

Finally, the pharmacist who wishes to occupy profitably some of his spare time can engage in public work. There is need for such in every town to-day, particularly when the call to economise is so insistent. The pharmacist, by his technical training and knowledge, is eminently fitted to serve on committees where the health of the people is concerned. For reward, if he wants it, there are honours such as election to the mayoralty or to the commission of the peace, as well as others not so showy, but still indicative of merit and devotion to public service.

The Essential Oils of the British Pharmacopœia, 1932

By Ernest J. Parry, B.Sc., F.I.C.

NUMERICALLY the essential oils are less than in the 1914 volume. The alterations in this respect will be noticed in referring to each individual oil.

OLEUM ABIETIS.—This oil, which was official in the last Pharmacopœia, must now contain from 35 to 45 per cent. of esters calculated as bornyl acetate. The previous monograph required from 30 to 40 per cent. Whether this is meant to be a restrictive standard one cannot say, but certainly pure oils do contain as little as 30 per cent. of esters. The specific gravity is raised to 0.905 to 0.825, whereas the old figures were 0.900 to 0.920. From 0.900 to 0.928 would have included more pure oils than the chosen figures do. The optical rotation has been altered to -32° to -45° (previously -32° to -42°). A definite instead of a vague figure is given for the refractive index, and in regard to this figure the Pharmacopœia has now followed scientific works in quoting this figure as determined at 20° , instead of pandering to the American climatic conditions and recording it at 25° , as was the case in the 1914 book. It is to be regretted that for some unknown reason we find on page 9 that "statements of solubilities refer to solubilities determined at 15.5° unless otherwise stated." This is, of course, a legacy from the previous volume. It is a pity that here the scientific standard of 20° is rejected—and, strangely enough, accepted for one only of the essential oils, namely, sandalwood oil.

OLEUM AJOWAN.—This oil, which was official in 1914, is omitted from the present Pharmacopœia.

OLEUM ANETHI.—The only figures which differ from those of the previous requirements are the refractive index, which is adjusted to 20° instead of 25° , and the solubility, which is now to be in an equal volume of alcohol, instead of in three volumes. Limits of from 43 to 63 per cent. are given for the carvone. Schimmel has found genuine English distilled oils which are excluded by these standards.

OLEUM ANISI.—The alterations in this oil include the specific gravity 0.980-0.984 (previously 0.975-0.990); the adjustment of the refractive index to 20° ; and the freezing point not below 15° instead of "about 15.5° " of the last volume. A limit for contamination with lead is given, but no test for the presence of alcohol—a necessity recognised by all practising analysts.

OLEUM ANTHEMIDIS.—This oil, which was official in 1914, is omitted.

OLEUM CADINUM.—This oil, although the product of destructive distillation, may be conveniently dealt with here. The present figures are specific gravity 0.975 to 1.010 (previous edition, about 0.990), and refractive index 1.510 to 1.530.

OLEUM CAJUPUTI.—This oil must now be colourless or yellow instead of green or bluish-green. It is to contain from 50 to 60 per cent. of cineol (previous edition, not less than 45 per cent.). The specific gravity changes from 0.919-0.930 to 0.916-0.926, and the refractive index is adjusted to 20° .

OLEUM CARLI.—The correct name, which appeared as the official title in the 1914 Pharmacopœia, has given place to the incorrect "Oleum Cari," with *Oleum Carvi* as a synonym. The plant is *Carum carvi*, and *oleum cari* might equally refer to *ajowan* oil. The optical rotation is altered to $+70^{\circ}$ to $+80^{\circ}$ (in 1914 $+75^{\circ}$ to $+82^{\circ}$); the refractive index is adjusted to 20° ; and limit figures of 53 to 63 per cent. of carvone replace the 50 per cent. distillate above 200° of the 1914 book. These figures must be accepted, to a small extent, as restrictive, as genuine samples sometimes fall without their limits.

OLEUM CARYOPHYLLI.—In this oil the cold process of phenol absorption is to be used, which, of course, gives a lower result than the hot process, owing to the fact that free phenols only are determined by the former, whereas combined phenols are decomposed by the hot process. The specific gravity is altered to 1.047-1.060 (1914, 1.047-1.065), and the refractive index adjusted to 20° .

OLEUM CHENOPODII.—This oil is new to the Pharmacopœia. It must contain not less than 65 per cent. of ascaridol when assayed by the iodine process. It is difficult to understand why the operation of running in 5 "millilitres" from a burette should be described in the following terms:—"Then add 5 millilitres of the acetic acid solution of the oil, mixing it with the reagent as quickly as possible, and making due allowance for the draining of the burette." The specific gravity limits 0.960 to 0.980, and optical rotation -4° to -8° , will certainly exclude some genuine wormseed oils.

OLEUM CINNAMOMI.—The cinnamic aldehyde limits are altered from 55-65 per cent. to 50-65 per cent.; and in place of the sodium sulphite absorption method the hydroxylamine method is now official. The optical rotation is altered from -0.5° to -1° (1914) to 0° to -2° , and the refractive index is adjusted, with slight alteration, to 20° .

OLEUM COPAIBE.—This oil is omitted from the new work.

OLEUM CORIANDRI.—The specific gravity is altered from 0.870-0.885 (1914) to 0.870 to 0.884. Why this trifling alteration is made when the 1914 figures are those of the principal published authorities is not to be understood. The optical rotation of the 1914 book, $+8^{\circ}$ to $+14^{\circ}$, is altered to $+8^{\circ}$ to $+15^{\circ}$, and the refractive index to 1.462 to 1.472 at 20° . Comparison of these and many other figures suggests that slight alterations of recognised published figures have been made to cover possible abnormal samples. Or are they due to that peculiar "self assertion" so characteristic of the British Pharmacopœia?

OLEUM EUCALYPTI.—The optical rotation has been reduced from $\pm 10^{\circ}$ to $\pm 5^{\circ}$, which is an improvement, as high rotative oils are usually of more objectionable odour than those of low rotation, and are readily obtainable in quantity. Refractive index figures have been introduced, 1.458 to 1.470 at 20° . A limit test for aldehydes is introduced, and the *o*-cresol method for the determination of cineol replaces the unsatisfactory phosphoric acid method of the 1914 volume. This, in the writer's opinion, is the most useful and important alteration in the essential oil monographs.

OLEUM GAULTHERIE.—This essential oil is omitted, and as methyl salicylate remains official, this is obviously a useful omission.

OLEUM GRAMINIS CITRATI.—This oil also disappears. This is fortunate, as the 1914 monograph was an instance of pharmacopœial aggression in trying to establish the sulphite method of assay on a market article, scarcely used in pharmacy, which was invariably assayed by the bisulphite method. The market, however, made no change, and probably never even knew about the "B.P." method.

OLEUM JUNIPERI.—This oil disappears from the Pharmacopœia. This is to be regretted, as large quantities—very large quantities—are used in official medicine, and an official standard would be useful.

OLEUM LAVANDULÆ.—The esters in English oil have been raised from 7-11 per cent. to 7-14 per cent. This (although perhaps the writer's opinion is wrong) is regrettable. So rarely does English distilled oil contain so high an amount of ester, that it would be no hard-

ship for a distiller to bulk it with other distillates and so keep to the lower values. On the other hand, every loophole for adulteration given by the Pharmacopœia is carefully examined by the unscrupulous dealer; and this raising of the ester value will encourage such dealers to add a little foreign oil to low-ester English oil and sell the mixed product as English oil. The minimum limit for esters in foreign oil has been raised to 35 per cent. This figure must be regarded as purely restrictive, as many genuine oils—and some of them of beautiful odour—contain less than 35 per cent. of esters. It should have been remembered that lavender oil does not, by any means, owe the whole of its odour to its esters, and low-ester oils may be so balanced by other highly odorous constituents that they are of finer odour than high-ester oils. Slight alterations are made in specific gravity, and the refractive index is introduced. Four volumes of 70-per-cent. alcohol for the solubility test seems rather liberal, but, of course, the test is carried out at 15.5° and not at 20°.

OLEUM LIMONIS.—The modification of the citral determination method to the cold process is a great improvement, and the experience of many hundreds of determinations by this method enables the writer to say that it yields, in the hands of different chemists, more concordant results than any other process. Slight alterations are made in specific gravity, optical rotation and refractive index. The last-named figure might well be a little higher in its minimum limit. The setting up of the 4 per cent. standard by the 1914 Pharmacopœia has assisted adulteration very largely, and one is safe in saying that the greater part of the so-called "B.P. lemon oil" is high-grade oil reduced to B.P. figures. However, fortunately discriminating consumers are fully aware of the disservice done to the pure lemon oil trade by this standard, and they buy and sell a high-grade lemon oil with from 4.5 to 5 per cent. of citral and sell their B.P. oil as a lower grade; which is rather humiliating to a would-be aristocratic standard!

OLEUM MENTHÆ PIPERITÆ.—The minimum of 5 per cent. of esters becomes from 4.5 to 9 per cent., and the minimum of 50 per cent. of total alcohols is substituted by a minimum of 46 per cent. of free menthol. The specific gravity is drastically altered, from 0.900-0.920 to 0.902-0.910; the optical rotation is altered from -20° to -35° to -18° to -32°; and the refractive index is given. A qualitative test for Japanese peppermint oil is given. These figures exclude some genuine American oils, some genuine English oils, much pure French oil, and much very high-grade pure Italian oil. It is difficult to understand these restrictive figures.

OLEUM MYRISTICÆ.—Slight alterations in characters are given, the principal being the raising of the lower limit of specific gravity to 0.880 (0.870 in the previous book) and the lowering of the fixed residue to 3 per cent. (5 per cent. previously).

OLEUM ROSÆ.—This oil is omitted from the present Pharmacopœia.

OLEUM ROSMARINI.—The figure for esters is raised from 1.8 per cent. (previously) to 2 per cent., a point-less alteration, since 1.8 per cent. (and even lower) has been recorded by most authorities. The free alcohols must be not less than 9 per cent., which compares with 10 per cent. of total alcohols in the previous volume. The specific gravity is 0.900-0.919 (0.895-0.920 previously); the optical rotation is -5° to +10° (-2° to +15°); and the refractive index is slightly altered. These figures are a step in the wrong direction; those of the previous volume were more in accord with published authorities.

OLEUM SANTALI.—This name, as was to be expected, is reserved for the product of distillation of the true East Indian sandalwood—*Santalum album*. A 2-per-cent. minimum limit for esters is introduced, with a minimum of 90 per cent. of free alcohols calculated as santalol. This is, in effect, raising the standard from that of the previous work, which required a minimum of 90 per cent. total alcohols calculated as santalol. The present standard is equivalent to almost 92 per cent. of total alcohols calculated as santalol. The solubility is altered to 1 in 5 of 70-per-cent. alcohol instead of 1 in 6, as previously; and as the solitary example—an obvious anomaly hardly to be expected in a semi-

scientific work—it is the only one of the essential oils the solubility of which is to be determined at 20°, all the others being officially determined at 15.5°. The optical rotation is now changed from -15° to -20° (-13° to -21° previously), and the refractive index is reduced to 20°. This oil is sharply differentiated from the next one in alphabetical order.

OLEUM SANTALI AUSTRALIENSIS.—West Australian sandalwood oil is now included in the Pharmacopœia for the first time, but it is differentiated from the true sandalwood oil by its qualification, which is as would be expected. The source of the oil is given as *Eucarya spicata* (syn. *Santalum spicatum*). It is very difficult to judge the figures given for this oil, as for some years past commercial specimens are known to have been mixtures of the oils distilled from *Eucarya spicata* and other plants. It is to be presumed that the characters now given are intended to be those of the actual distillate from *Eucarya spicata* only, after it has been suitably rectified.

OLEUM SINAPIS VOLATILE.—This essential oil is omitted from the new Pharmacopœia.

OREUM TEREBINTHINÆ.—The only "serious" addition to this monograph is a direction to determine the iodine absorption. The directions for doing this are childish and vague. The Wij's solution acts on essential oils and resins in a manner which demands very minute attention to small details. Apart from the direction to "weigh accurately and rapidly," which is an insult to the intelligence of the chemist, whatever it may be presumed to be to others, the direction to set aside "at laboratory temperature for exactly one hour" is simply stupid. If this determination is carried out on a winter day at, say, 8°, and on a summer day at, say, 25°, quite different results will be obtained. If the period of one hour is exceeded by five minutes, or if it is counted as from the addition of the iodine or the moment the container is placed in the dark, or any other detail is varied or not completely understood, results may be obtained which differ so much between themselves as to astonish the inexperienced operator. This particular determination, it is to be hoped, will be omitted from the next edition of the British Pharmacopœia.

This review of the essential oils would hardly be complete without a reference to Appendix XI. Much of the matter here is substantially identical with that contained in the reports of the Essential Oil Subcommittee of the Committee appointed by the Society of Public Analysts—except that Dr. Jekyll with his "c.c." has become Mr. Hyde with his "millilitres."



A MEDICAL CORRESPONDENT WHO ALSO QUALIFIED AS A PHARMACIST HAS FAVOURED US WITH THE NEGATIVE FROM WHICH THIS ILLUSTRATION, SHOWING THE SOUTH LONDON SCHOOL OF PHARMACY STAFF AND STUDENTS ABOUT TWENTY-FIVE YEARS AGO, IS TAKEN. IN THE FRONT ROW ARE THE PRINCIPALS (MR. A. H. M. MUTER AND MR. C. A. HACKMAN), MR. F. ARMSTRONG AND MR. J. THOMAS.

Committees of the British Pharmaceutical Conference ABERDEEN, 1932



Photo]

[Hardie

LADIES' COMMITTEE

Seated (left to right): MRS. W. G. MITCHELL, MRS. HAY (Joint Chairman), MRS. BRYANT (Secretary), MRS. TAYLOR (Joint Chairman), MRS. WEIR

Standing (left to right): MRS. BRUCE, MRS. CALDWELL, MRS. FARQUHAR, MRS. A. M. MITCHELL, MRS. REITH



Photo]

[Hardie

LOCAL EXECUTIVE COMMITTEE

Seated (left to right): MR. C. SIMPSON, MR. H. M. DUGAN (Secretary), MR. W. F. HAY (Chairman), MR. M. R. WATT (Treasurer), MR. W. S. TAYLOR

Standing (left to right): MR. J. FARQUHAR (Convener, Housing Committee), MR. M. C. ROSS (Convener, Sports Committee), MR. J. G. MUTCH (Convener, Transport Committee), MR. A. S. WEIR, MR. A. P. WALLACE (Joint Convener, Entertainments Committee), MR. W. WATT (Convener, Publicity Committee), MR. C. A. MICHIE, MR. D. ANDERSON (Joint Convener, Entertainments Committee)

Personalities

MR. E. F. HODDER, chemist and druggist, has been granted permission to practise in the island of Jersey.

MR. J. GALE, chemist and druggist, Boscombe, Bournemouth, who was involved in a motor-car accident at Southampton, recently, is reported to be making satisfactory progress. Mr. Gale is suffering from a broken arm and other injuries.

We have received a copy of "The Three Dreams and Other Poems" (T. W. Laurie, Ltd., 24 Water Lane, London, E.C.4), a volume of 208 pages from the pen of Mr. W. Luther Longstaff, a pharmacist formerly in business (as Keith Longstaff) in Fulham, S.W. This is by no means Mr. Longstaff's first book; he has written other poetry and a novel, and it may be hoped that in his retirement he will be inspired to add to the laurels already won.

THIS week a talk with Mr. Richard McGeorge, of Nairobi, brought a breath of romance into the editorial sanctum seeing that Mr. McGeorge went to Africa from this country over twenty years ago and has had many adventures. Mr. McGeorge is a Scotsman who, after qualifying, had experience in Edinburgh and in England, but decided to emigrate. He first tried South Africa, then was for a short time in the Congo, but eventually settled down in British East Africa in partnership with Mr. L. A. Howse—also a chemist with a British qualification. Their first business was in Nairobi, and in spite of the Great War and other vicissitudes, the firm of Howse & McGeorge has prospered, now owning no fewer than twelve establishments, five in Kenya, five in Tanganyika, and two in Uganda. Mr. McGeorge had much to say regarding business conditions generally in that part of the Empire which he knows so well, and his practical pointers to manufacturers and exporters of pharmaceutical products to British East Africa are distinctly valuable. He travelled by air all the way from Nairobi to London, taking one week only on the journey instead of the usual three or four weeks by steamer. All the correspondence between Messrs. Howse & McGeorge and their friends here is now sent by air mail. After another "flying" visit to Paris Mr. McGeorge will settle down with his family in Edinburgh for at least six months before returning to Nairobi.

Marriages

BRUTON—AYLING.—At Union Church, Brighton, on July 30, John Claude Bruton, chemist and druggist, to Doris Ayling.

DAVIES—MOORE.—At Kingston-on-Thames Congregational Church, on August 3, Evan Gwilym Davies, chemist and druggist, to Edith Winifred Moore.

HOPKINS—SALTER.—At St. Andrew's Church, Walcot, Bath, on July 28, John H. Hopkins, chemist and druggist, to Kathleen A. Salter.

MANN—SAULTERS.—At St. Luke's Church, Belfast, on August 3, the Rev. Stanley Mann, B.A., elder son of Mr. A. W. Mann, Ph.C., Belfast, to Alice Saulters.

TILLOTT—COULTER.—At the Parish Church, Easingwold, York, on July 28, Harry Tillott, M.Sc., to Dorothy D. Coulter, chemist and druggist.

WRIGHT—HARDWARE.—At St. Mark's Church, Peterborough, on August 8, Bernard Wright, chemist and druggist (F. W. Whitwell, Ltd., chemists), elder son of Mr. A. Wright, Bedale, Yorkshire, to Ivy Millicent, elder daughter of Mr. W. Hardware, Peterborough.

Silver Wedding

COOK—WESTALL.—At the Parish Church, Faringdon, Berks, on August 3, 1907, William Henry Cook, chemist and druggist, to Ethel Hay Westall.

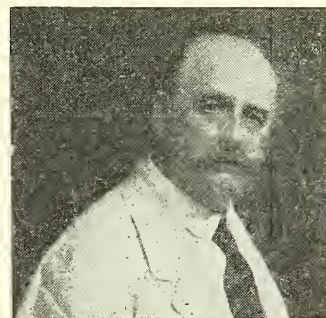
Deaths

BATE.—At Walsall, on July 30, Mr. Joseph William Bate, chemist and druggist, 208 Stafford Street, aged eighty-two. Mr. Bate commenced business in Stafford Street over fifty-four years ago, and until a recent illness he took an active part in the business, and served on the Walsall Pharmaceutical Committee. He is survived by a son, Mr. J. W. Bate, chemist and druggist, and a daughter.

HUCKLEBRIDGE.—At Ipswich Hospital, on July 24, during an operation, John, only son of Mrs. Hucklebridge and of the late Mr. Wilfred Hucklebridge, chemist and druggist, 52 High Street, Needham Market, aged sixteen.

KING.—At "Lyss," Southbourne-on-Sea, on August 2, suddenly, Louisa Florence, dearly loved wife of Mr. A. J. King (formerly representing J. C. Eno, Ltd.).

MARSHALL.—At 29 Chalfont Court, Baker Street, London, W.1, on August 5, Mr. John David Marshall, chemist and druggist, late managing director of John Bell & Croyden, Ltd., 50 Wigmore Street, W.1. Mr. Marshall passed the Qualifying examination in 1881, and was for some years in business on his own account, first in Pimlico Road, S.W.1, and then in Wigmore Street. In 1908, on the formation of John Bell & Croyden, Ltd., he joined the company as managing director, with Mr. Walter Hills, Mr. E. W. Lucas and Mr. J. R. Wretts as his co-directors. The new company acquired the business of the late Mr. Charles Croyden (an old "Bell's" assistant), then owned by Mr. Marshall, and established a new pharmacy with oak fittings, old china and other evidences of fine taste; the premises were soon afterwards enlarged and were formally opened by the Lord Mayor of London. The manufacture of ampoules and of sterilised dressings on a large scale followed, and the business of Arnold & Sons, Giltspur Street, E.C., was absorbed in 1921. An illustrated account of the manufacturing and retail departments appeared in THE CHEMIST AND DRUGGIST, 1921, I, 892. Mr. Marshall was president of the Western Pharmacists' Association in 1913; in the same year he took an active part in organising the jubilee meeting of the British Pharmaceutical Conference, and members of the Conference will remember that he and Mrs. Marshall were frequent visitors at subsequent meetings. Since his retirement Mr. Marshall had kept in fairly close touch with pharmaceutical affairs, and his holiday tours usually resulted in the appearance of descriptive articles or letters in our columns, everything from his pen expressive of his genial personality. His unexpected death is a great blow to his numerous friends.



MR. JOHN D. MARSHALL

MUIR.—At Edinburgh, on July 20, Mr. John Muir, chemist and druggist, 7 Crichton Place. Mr. Muir qualified in 1898.

OCKENDEN.—At his residence, 32 Lionel Road, Tonbridge, on July 28, Mr. James Ockenden, chemist and druggist, aged ninety.

WORTS.—At 26 Westbourne Gardens, Folkestone, on July 22, Mr. Harry Augustine Worts, retired chemist and druggist, aged seventy-one. Mr. Worts was formerly in business at Clacton-on-Sea; he disposed of his pharmacy in 1910.

Trade Notes

CANADA BALSAM is advertised in this issue by N. C. Polson & Co., Ltd., Montreal, Canada.

SUNDOWN is a new anti-midge preparation placed on the market by F. C. Calvert & Co., Ltd., Bradford, Manchester. It is supplied in tins which retail at a popular price.

ELIXIR L.Y.H.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, announce the introduction under this name of a general tonic containing liver, yeast and hæmoglobin. It is particularly suitable in cases where there are anæmic conditions, and is issued in 4-oz., 8-oz. and 16-oz. bottles.

QUEEN ANNE LAVENDER PRODUCTS.—Marlborough & Co., Ltd., 491 Liverpool Road, London, N., whose Queen Anne lavender water has achieved rapid popularity on account of its high quality and low price, are arranging in respect of it, the face powder and the talc, a window display competition for which they are offering cash



prizes. A folder giving full details is shortly to be sent out to chemists. The contest opens on August 22 and closes September 30. Among the display material available are cut-outs, three-piece screens and window stickers, two of which are illustrated above. A bonus offer is being made and stock may be obtained direct or through a wholesaler.

A WASHABLE POWDER PUFF.—Iva Manufacturing Co., 25 Banner Street, London, E.C.1, have drawn our attention to their fur powder puffs which are washable and fadeless, in fact it is stated that they may be boiled without loss of either texture or colour. Iva puffs are available in all the fashionable colours and in a variety of styles and prices. An advertising campaign in connection with the puffs has been arranged to start in September. Material for window and counter display is available and supplies of the puffs may be obtained through the usual wholesale channels.

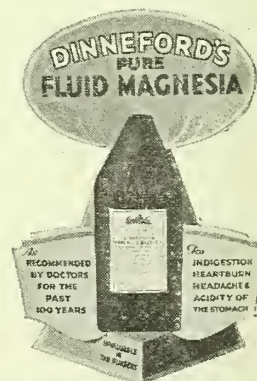
MACLEAN'S POWDER.—United Chemists Association, Ltd., manufacturing chemists, Cheltenham, have sent us a half-dozen display box of Ucal brand of alkaline stomach powder prepared according to the well-known formula of Dr. MacLean. The outer and cartons are attractively designed and the powder is packed in a



wide mouth bottle with a metal screw cap, the neck of the bottle being large enough to admit a teaspoon—a practical point sometimes overlooked. The large demand for this powder should render it one of the best selling Ucal lines.

PREMO BRUSHES IN COLOURS.—Premo Brushes, Ltd., Petersfield, inform us that their all-rubber nail brushes (see C. & D., July 2, p.11) are now obtainable in seven colours as follows:—Flesh, brick saxe-blue, green, violet, brown and black. These colours are most striking and open up considerable opportunities for display, as well as making an instant appeal to the buyer. When ordering it is particularly requested that the desired colours are specified, otherwise flesh will be sent.

DINNEFORD & Co., LTD., 12 Clipstone Street, London, W.1, have available for distribution to chemists the cut-out shown in the accompanying illustration. Another matter of interest in connection with the company's fluid magnesia is that the minimum value of an order for carriage paid terms has been considerably reduced.



LAVENDER CROP.—Perks & Llewellyn, chemists and lavender distillers, Hitchin, have sent us a large bunch of English lavender flowers. The spikes are well developed, healthy, and the florets of good colour, so that there is promise of a normal yield of oil.

ADAM HILGER, LTD., 98 King's Road, Camden Road, London, N.W.1, have sent us copies of their publications dealing with two new laboratory aids for the practical spectroscopist; both of these are applicable primarily to the ratio quantitative system of quantitative spectroscopy devised by Dr. S. Judd Lewis, Ph.C. The Specpure substances are salts and solutions of metals (of which over fifty are listed), of the highest purity, spectroscopically controlled. Besides their application to quantitative chemical analysis by the emission spectrum they may serve many purposes in chemical and physical research, their purity approaching in some cases that accepted in modern atomic weight determinations.—The Spectrum Comparator serves for viewing simultaneously in juxtaposition two spectra on separate plates. It is simply and strongly constructed and its optical system is so arranged that lines in spectra can readily be compared for intensity as well as for position. It is well adapted to the comparison of every type of spectrum, and in particular to methods of quantitative spectrum analysis. It ensures accurate results, and saves time and personal fatigue. A copy of either of the publications (Nos. 168 and 167 respectively) will be sent on application to any of our subscribers.

THE COUNTY PERFUMERY CO., Bradford Street, Birmingham, in sending us samples of their latest toilet products, write:—

"This monumental pack will be uniform throughout the majority of our lines (with the exception, of course, of Brylcreem), and will cover the following: Brilliantines, wet shampoos, bay rum, aftershave cream, tonic lotion, frictions, honey and flowers, setting lotion, County hair cream."

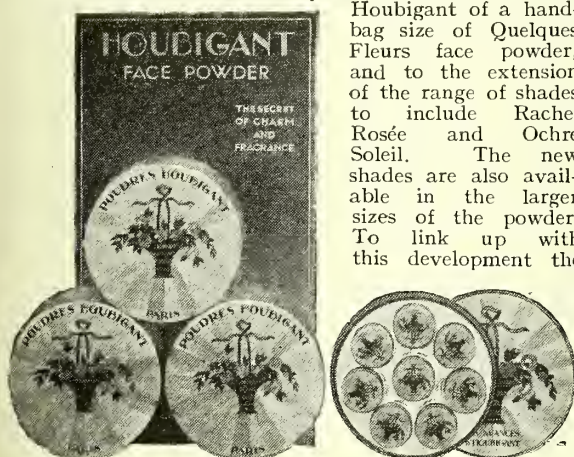
Chemists who do not receive a visit shortly from one of the firm's representatives may obtain samples of these products on request.



CONCENTRATED LIQUID LIVER EXTRACT.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., have brought out a concentrated liquid liver extract which may supplement, or replace the whole of, the amount of fresh liver in a daily diet. It is a palatable product and can be taken over long periods. This product is issued in bottles of 4 oz. and 16 oz., one fluid ounce containing the equivalent of 8 oz. of liver. —The stand of Messrs. Burroughs Wellcome at the exhibition in connection with the annual Congress of the National Veterinary Medical Association, held at Folkestone from August 8 to 13, provided a survey of present-day veterinary science, with special emphasis on serological products. In addition there was shown a wide range of Tabloid, Tabloid Hypodermic, Soloid, Wellcome and Enule Products, together with a selection of Agla hypodermic apparatus.

SOME STRIKING DISPLAY MATERIAL.—Reference was made in the C. & D. recently to the introduction by

Houbigant of a hand-bag size of Quelques Fleurs face powder, and to the extension of the range of shades to include Rachel Rosée and Ochre Soleil. The new shades are also available in the larger sizes of the powder. To link up with this development the



manufacturers are issuing a new style of shade display box and a giant show stand, both of which are shown in the photograph; the former, however, measures 9½ in. in diameter, but the latter is nearly 2 ft. wide and 3 ft. high, the "boxes" alone being each 11½ in. across. Owing to the costly nature of this advertising material, the distributors, Parfumeries de Paris, Ltd., Larden Road, Acton, London, W.3, inform us that it is only issued to customers who place orders of sufficient importance.

Business Changes

MR. P. H. LAMBERT, chemist and druggist, is opening a business at Benwell, Newcastle-upon-Tyne.

H. W. HERBERT, LTD., chemists, Egham and branches, have opened new premises at 4 Broomhall Buildings, Sunningdale.

MR. ISRAEL BEST, chemist and druggist, has acquired premises at 21 and 23 Utting Avenue, Anfield, Liverpool, which he is shortly converting into a modern pharmacy.

MRS. LOUISE LEVY, chemist and druggist, has taken over the business of Mr. J. W. Smith, 312 Hornsey Road, London, N.7, as from July 18, and is continuing it as W. H. King & Co. [Corrected note.]

DERMATITIS AFTER APPLYING QUININE LOTIONS.—At the recent centenary meeting of the British Medical Association, Dr. J. F. Burgess (Montreal) read a paper, in the course of which he stated that in 1929-30 he had encountered many cases of dermatitis resulting from the use of "after-shave" lotions containing quinine. He had found that in all cases sensitivity to the drug had been acquired by more or less prolonged use of the lotion. In one case complete tolerance had apparently been re-established by the administration by mouth of graduated doses of quinine.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1932, p. 339.

(From "The Trade Marks Journal," July 20, 1932.)

- "THOROTRAST"; for medicinal chemicals (3). By Chemische Fabrik von Heyden A.G., 57 Leipzigerstrasse, Radebeul, near Dresden. 532,423.
- "HACTOIDS"; for medicinal chemicals (3). By H. A. C. Thomas, 2 Courtney Road, Llanelly. 532,842.
- "SORBENTA"; for tooth paste (48). By Charlotte Ave. 9 Empire House, Thurloe Place, London, S.W.7. 531,383.
- "O'BRLITE"; for all goods (48). By J. O'Brien, 103 London Road, Leicester. 532,271.
- "PERGOLA"; for perfumery, etc. (48). By A. Button & Sons, Ltd., Metropolitan Depot, Belmont Road, Uxbridge. 531,390.
- "PERSIAN GARDEN"; for perfumery, etc. (48). By Ilex Supply Co., Ltd., 252a Gray's Inn Road, London, W.C.1. 532,520.
- "ATKINSON" and "ATKINSONS"; for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W.1. 532,604/605. (Associated.)

(From "The Trade Marks Journal," July 27, 1932.)

- "RADIOLISER"; for fertilisers (2). By E. Griffiths Hughes, Ltd., 68 Deansgate Arcade, Manchester. 531,274.
- "NEM-CON"; for disinfectants (2). By J. M. Smith & Co. (London) Ltd., Arthur Street, Old Kent Road, London, S.E.15. 533,042.
- "VITAN"; for a preparation for fluke in sheep, etc. (2). By Companhia Viton, 21 Boulevard Dondoukoff, Sofia, Bulgaria. 531,347.
- "LOMEX"; for manures and fertilisers (2). By Specialised Products, Ltd., 48 Rochester Row, London, S.W.1. 532,306.
- "BLISSEX"; for insecticides, etc. (2). By Bradley & Bliss, Ltd., 6 London Street, Reading. 532,629. (Associated.)
- "VICTOIDS"; for medicinal chemicals (3). By Fryer & Co. (Nelson), Ltd., Chapel Street, Nelson, Lancs. 524,481. (Associated.)
- "ANTIQUITO"; for a preparation for insect bites (3). By Dakin Brothers, Ltd., 82 Middlesex Street, London, E.1. 532,322.
- "VERNOPIOL"; for medicinal chemicals (3). By Société des Vermènes (Société Anonyme), 46 Rue du Bac, Asnières (Seine), France. 533,075.
- "WUF RADIATES HEALTH" on triangular design incorporating man with dumb-bell; for headache powders (3). By L. J. Paterson, 855 Argyle Street, Glasgow. 532,659. (Associated.)
- "BATH-SULES"; for bath salts (48). By W. E. Billingham, "Durlston," Burnt Ash Lane, Bromley, Kent. 525,132.
- "ACADEMY"; for soap (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 530,701.
- "FASTEEDO"; for all goods (48). By J. C. Shannon, 324 Ulster Chambers, 163 Regent Street, London, W.1. 532,360.
- "TAKONDA"; for all goods (48). By Naamlooze Vennootschap Drogerijen Maatschappij, Verlaatsstraat 52/56, Rotterdam. 532,436.

(From "The Trade Marks Journal," August 3, 1932.)

- "SICRO"; for chemicals (1). By Höganäs-Billesholms Aktiebolag, Höganäs, Sweden. 532,151.
- "CREXONE" and "CREXYL"; for chemicals (1). By Rex Campbell & Co., Ltd., 7 Idol Lane, London, E.C.3. 532,979/980. (Associated.)
- "SANDIS"; for chemicals (2). By Jeyes' Sanitary Compounds Co., Ltd., 99 Regent Street, London, W.1. 531,050.
- "THE CELEBRATED 'SPEEDWAY' DOG TONIC (OLD IRISH RECIPE)"; for dog medicines (2). By J. H. Franklin, 210 Victoria Avenue, Spouthend-on-Sea. 532,370.
- "SUN SPOT"; for medicated sweetmeats (3). By Hall Brothers (Whitefield), Ltd., Stanley Street, Whitefield, Nr. Manchester. 531,094.

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REGINALD W. BARKER & CO.

56 Ludgate Hill, London, E.C.4.

IVA turn to page **3**
it will interest you

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

C/98. Canomax	M/68. Hornicura
F/98. Carbozone gas in solution for artificially cooling liquids	E/103. Isoli toilet preparations
B/98. Celso celery extract	N/108. Larees lily vanishing cream
F/88. Figules, makers or suppliers of	B/38. Lido sunburn lotion
H/98. Floralia perfumery	R/98. Novinculin
B/38. Gesi vacuum flask	B/98. Silvo pine disinfectant
	B/38. Wembley feeder
	E/98. Zane's dog soap

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THE CHEMIST AND DRUGGIST

VOL. CXVII AUGUST 13, 1932 NO. 2740.

Ministry of Health Report

THE thirteenth annual report of the Ministry of Health, covering the year ended March 31, 1932, has been issued (Cmd. 4113, 5s.) by the Stationery Office. The report extends to 320 octavo pages, and includes thirty-two appendices, mainly of a statistical nature. The principal subjects affecting the drug trade are the Food and Drugs (Adulteration) Act and National Health Insurance dispensing.

Inspection of Food and Drugs

The total number of samples examined by public analysts during the twelve months was 136,169, of which 70,201 were samples of milk. Of the 5,257 samples of drugs submitted, 236 were reported as adulterated or not up to standard. These included sweet spirit of nitre, camphorated oil, mercury, zinc and other ointments, ground ginger, seidlitz powders, bismuth tablets and aspirin tablets. Several samples sold as turpentine consisted wholly of mineral oil or paraffin. Some ammoniated quinine tablets were almost devoid of ammonia. The report continues:—

Tartaric acid was found to be cream of tartar or Rochelle salt, while borax was sold as carbonate of soda and paregoric was reported as devoid of opium and liniment of turpentine as being wholly soft soap. In two cases the analyst reported an excess quantity of an ingredient; sulphur ointment contained 70 per cent. excess sulphur, and camphorated oil 15 per cent. excess camphor. Tablets sold as digestive tablets were reported to possess no digestive properties, and five prescriptions were reported against as being inaccurately dispensed.

This is equivalent to a 4.5 percentage of "adulteration," substantially the same as that of all classes of samples (4.6). One or two articles frequently sold by chemists receive separate notice: thus we learn that 149 of the 1,571 samples of vinegar were adversely reported upon, including 102 deficient in acetic acid. Mixed spice, cinnamon and other culinary goods were found in thirty-two instances to contain an excess of sand. The section of the report dealing with Wales informs us that 128 samples of drugs were taken during the year, but does not add the results of analysis.

National Insurance Dispensing

The number of doctors in insurance practice in the year under review was 14,840, and the number of chemists' shops supplying medicines and appliances "about" 9,500. Approximately 15,000,000 persons were entitled to medical benefit; the cost of the benefit for the year was over £8,941,000, of which sum £1,987,500 was paid to insurance chemists. There was an increase of over 4½ per cent. in the number of insurance prescriptions dispensed in 1931 compared with 1930, the numbers rising from 52,489,430 to 54,918,738; and the average number of prescriptions issued per insured person increased from 4.12 to 4.17. The average ingredient cost per prescription fell to 3.488d. (3.6d. in 1930), but the average total cost of drugs and appliances per insured person entitled to obtain them

from chemists rose from 2s. 8½d. in 1930 to 2s. 9d. in 1931. The number of cases of excessive prescribing was considerably smaller than in the previous year, and the number of other infringements of doctors' terms of service resulting in fines (or the withholding of remuneration) showed a slight decrease (from 79 to 75). Chemists' cases of infringement were also slightly fewer than in 1930, falling from 180 to 175, and the corresponding total of sums withheld from £246 to £221 10s. The largest amount withheld from a chemist was £5. In Wales, 926 medical practitioners and 727 were under contract with insurance chemists during the year. The number of prescriptions priced for chemists was 2,549,673, an increase of 76,250 on the previous year's total; the cost was £83,693 (£82,491 in 1930). The cost of drugs supplied by practitioners to their patients was £18,160. The average cost per insured person entitled to medical benefit was 2s. 5.62d. (2s. 5.37d. in 1930). Sums of money were withheld from eleven practitioners and from twenty-seven chemists; the highest amounts deducted were £5 and £4 in the respective classes. No representation for the removal of either a doctor or a chemist from an insurance committee's list was made in Wales during the year.

Other Points of Interest

Those who are interested in public administration will find in the report various topics worth attention. Under the Therapeutic Substances Act, 1925, nine new licences were issued during the past year; the total number of licences in force on March 31, 1932, was 120, of which forty-eight were licences to manufacture and fifty-six licences to import. Deaths from tuberculosis show a fall from 33,505 (pulmonary) and 9,173 (non-pulmonary) in 1921 to 29,658 and 6,160 respectively in 1931. The Chief Inspector under the Alkali, etc., Works Regulation Act, 1906, reports that while it has not been considered necessary to institute proceedings in any instance during the period covered, further precautions are needed with regard to low-level escapes of hydrochloric acid gas, dust from cement works and the disposal of raw ammoniacal liquor. Recent work on vitamin standards and on radium also receives notice. The annual report of the Chief Medical Officer of the Ministry will, as in former years, be issued separately.

The Nomenclature of Lavender and Spike

THE current issue of the Kew "Bulletin of Miscellaneous Information" (No. 6, 1932: Stationery Office, 1s.) contains the result of an historical investigation by Miss M. L. Green into the nomenclature of lavender and spike. The difficulty of the systematic naming of the two plants arises from the fact that the name *Lavandula Spica*, as originally published by Linnaeus, included both lavender (as var. α) and spike (as var. β). Miss Green finds that when spike was separated from lavender, *L. Spica* was regarded as spike by De Candolle, Bentham and others, while various botanists, on the other hand, have retained the name for lavender—e.g., Loiseleur, Nyman and Briquet. The name *L. Spica* has thus become quite ambiguous unless qualifying words are added. Miss Green accordingly suggests the addition of *L. Spica*, Linn., to the list of "nomina ambigua" in charge of the Executive Committee of Nomenclature of the International Botanical Congress: in that event, the correct name of lavender becomes *Lavandula officinalis*, Chaix, and that of spike *Lavandula latifolia*, Vill. The monograph in the Kew "Bulletin" is completed by a record of the principal synonymy of the two species.

From Old Scottish Records

THE publication of Dr. Ferguson's historical article on Scottish medicine in our Special Issue of June 25 has prompted a correspondent (24/5) to make extracts from old books in his possession. We have selected the following as being of most interest:—

Glasgow History

In 1674 a company was formed in Glasgow to carry on whaling and soapmaking, and a blubber factory was erected at Greenock. The soap factory was situated at the head of Candleriggs. It is interesting to learn that this "soaperie" issued the first advertisement printed in the first newspaper to be published in Glasgow, the "Glasgow Courant," of November 11, 1715, which ran thus: "Any one who wants good black or speckled soap may be served by Robert Luke, the manager of the Soaperie at Glasgow, on reasonable terms."

Mr. Charles Macintosh, of Glasgow, introduced, from Holland, in 1786, the secret of the commercial manufacture of sugar of lead. Large quantities had up to that time been bought from Holland, but so efficiently was the manufacture and marketing of the salt carried out in Scotland that very soon the tables were turned, and large shipments were sent from Scotland to Rotterdam. That Mr. Macintosh was not only an expert chemist, but an equally expert man of business was shown by other ventures which he successfully launched. In 1799 he made the first preparation of chloride of lime in the dry state and revolutionised the bleaching industry. His firm also established the manufacture of cudbear, then an article of great importance in the dyeing

industry. Perhaps the achievement best associated with the name of Macintosh was his discovery of the method of waterproofing cloth. This discovery, originated in



EXTERIOR OF MR. JOHN LOW'S PHARMACY,
KIRKCALDY

Glasgow, was developed commercially, but the business was transferred to Manchester.



INTERIOR OF THE PHARMACY OF MR. JOHN LOW, KIRKCALDY, ESTABLISHED 130 YEARS AGO BY MR. DRON, AND SINCE OWNED ONLY BY MR. D. STORRAR PRIOR TO MR. LOW'S ARRIVAL. THE FRIEZE CONSISTS OF OIL PAINTINGS OF LOCAL SCENES AND CELEBRITIES, ONE VIEW SHOWING WEMYSS CASTLE, WHERE MARY QUEEN OF SCOTS MET EARL DARNLEY, AND ANOTHER BALWEARIE CASTLE, ASSOCIATED WITH MICHAEL SCOT

Early Figures

In 1851 Scotland exported to England 44,617 gallons of sweets or home-made wines, 74 gallons of ether, 2,725 gallons of sweet spirit of nitre, and 77 gallons of tinctures and other medicated alcoholic preparations. In

the thirties of last century Scotland sent annually to England over 2,000,000 gallons of spirits; in 1852 the amount was over 2,250,000 gallons. In the same year over 1,000,000 gallons was sent to Ireland. From 9,000,000 to 10,000,000 gallons was annually distilled lawfully, but the detections of illicit distillations rose from 236 in 1830 to 711 in 1843.

The number of licensed soap-makers in Scotland in 1850 was twenty-five, and the amount of silticated soap made in that year 36,390 lb.; other hard soaps, 16,038,905 lb., and of soft soap, 6,847,577 lb.

The Scottish Parliament, desirous of maintaining uniformity in weights and measures, assigned the custody of the standard "Ell" to Edinburgh, the "Reel" to Perth, the "Pound" to

SEALING FIXTURE WITH BRASS FIGURE ON WOODEN BASE: THE GAS JET EMERGES FROM THE TOP OF HEAD. FROM THE SHOP OF MR. A. G. PITTILO, KIRKCALDY.

Lanark, the "Firlot" to Linlithgow, and the "Jug" to Stirling.

The following are retail prices ruling in Edinburgh in 1790: Soap, 6s. 8d. per stone (of 16 lb.); rum and brandy from 9s. to 14s. per gallon; tea, 4s. to 5s. 6d. per lb.; aqua vitæ, 2s. 6d. to 3s. 6d. per gallon.

Miscellaneous Notes

In 1811 the Senatus Academicus of St. Andrew's University, being dissatisfied with the functioning of their medical chair, resolved that it be a chair for instruction

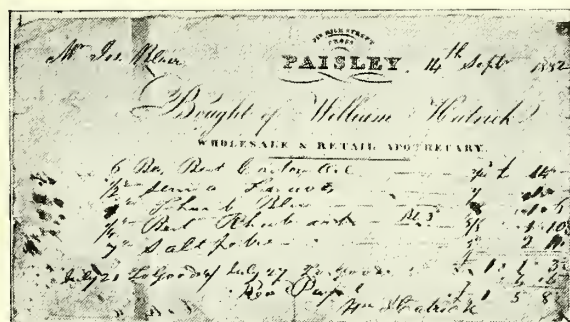
in the principles of medicine, anatomy and chemistry, and that the holder be an efficient professor, teaching two very important branches of medical science, chemistry and chemical pharmacy.

A very old Rothesay guide book contains advertisements by George Hicks, pharmaceutical chemist, corner



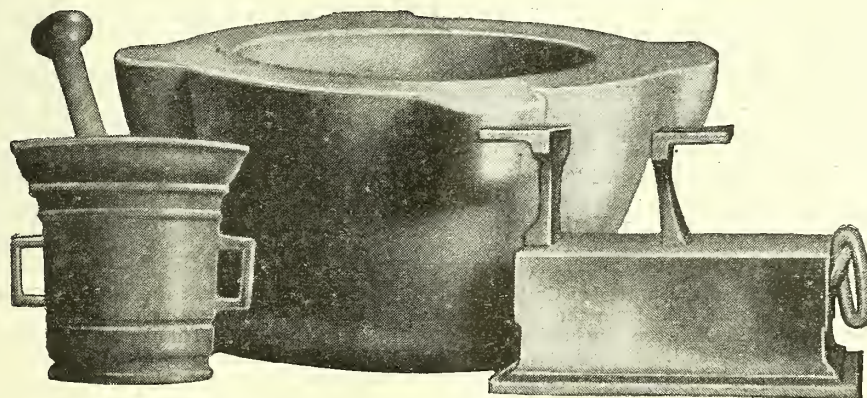
SNUFF BOX PRESENTED TO WILLIAM HATRICK, APOTHECARY, OF PAISLEY, AND INSCRIBED "PRESENTED TO MR. WM. HATRICK, APOTHECARY, AS A TOKEN OF RESPECT FOR PROFESSIONAL SERVICES . . . 10TH NOV., 1832."

of High and Victoria Streets, established 1826; Archibald McIntosh, druggist and pharmaceutical chemist, 21 Montague Street; Bute Medical Hall, William Duncan, pharmaceutical chemist, 13 East Princes



A RECEIPT ISSUED IN 1832 BY WILLIAM HATRICK, APOTHECARY, OF PAISLEY, FOUNDER OF THE PRESENT BUSINESS OF W. & P. HATRICK, MANUFACTURING CHEMISTS, GLASGOW. THE ARTICLES INCLUDE CASTOR OIL, SENNA LEAVES, RHUBARB AND SALTPETRE.

Street. Dr. Paterson's hydropathic establishment, 7 Mountstuart Road, Rothesay, established 1843, advertises baths for various diseases.



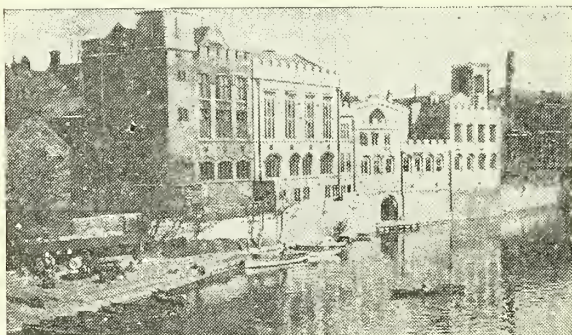
ANCIENT MORTARS AND POWDER FOLDER FROM THE PHARMACY OF MR. L. H. HARPER, INNERLEVEN, FIFE

Old York

By Gwendolen Hindes, M.Sc.

The fact that York is on the direct route to Scotland may tempt those who are going to the Conference meeting at Aberdeen by car from the South to break their journey there

MANY English towns are steeped in antiquity, but none has a greater charm than York and none has a stronger appeal. At every turn the realisation of history greets the visitor; the city walls, remnant of mediævalism, are still in an excellent state of preservation, and are the first thing to meet the eye on leaving the railway station. A walk round the walls is an excellent way of seeing the city, and one of the



YORK GUILDHOUSE AND RIVER OUSE

first things to strike the walker is the tremendous number of church spires. Apart from the Minster itself there are many ancient and interesting churches, but they cannot be detailed in a short article like this. At St. Michael's the curfew used to be rung, and at All Saints' a lamp was hung to direct pilgrims who came to the city when York was surrounded by forests. St. Margaret's had a very fine Norman doorway, and several churches have fourteenth- and fifteenth-century glass. Two fourteenth-century bells at St. Mary's remain from the time when York was famous for its church-bell foundry.

The prettiest part of the walls is between Monk Bar and Bootham Bar, passing the Dean's Park, and a splendid view of the Minster is obtained from here. The four bars mark the old entrances into York. From the South the city was entered by Micklegate Bar. This bar no longer has its barbican, but it is decorated with a number of shields bearing arms, including those of Edward III, in whose reign it was rebuilt and who used York as his base for conducting the war with Scotland. Parliament met in the city seven times between 1328 and 1337.

York became a royal duchy in 1385. Many famous heads have adorned Micklegate Bar in the course of history. After Hotspur was slain his head was put on the bar; then it was given to his wife and he was interred in the Minster. In the Wars of the Roses, Richard, Duke of York, fell at the battle of Wakefield, and Queen Margaret ordered that his head should be crowned with a paper crown and placed on a pole over Micklegate Bar. In "King Henry VI" Shakespeare refers to this spiteful vengeance:—

"Off with his head and set it on York gates
So York may overlook the town of York."

No head has decorated this bar since 1745, when two heads were stuck there after the battle of Culloden.

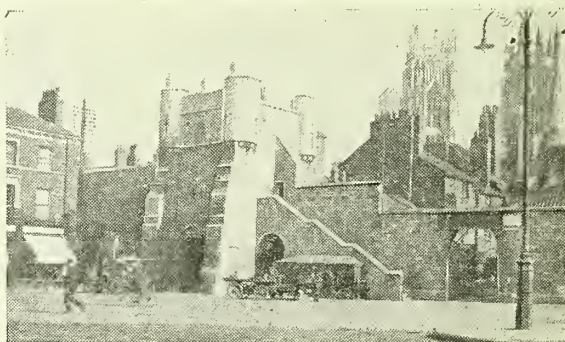
Bootham Bar protected the road from the North, and owing to the continual strife between England and Scotland it was always well guarded. It still has its portcullis. To-day this is the most picturesque of the four city gateways, as the Minster Towers rise up behind, and St. Helen's Square, with the old King's Manor and

the Art Gallery at the opposite side from the bar, saves it from the rather cramped appearance which Monk Bar has, owing to the narrow street of small shops in which it now stands. Monk Bar guards the city entrance from Scarborough, and was built in the reign of Edward III. It has no barbican now, but it is the most complete of the bars and is the finest example of an English city gatehouse in the country. Walmgate Bar still has its barbican, portcullis and inner gates, and it is the city gateway from Hull.

The beauty of York is greatly enhanced by the River Ouse, which flows like a smooth wide ribbon through the city. It is spanned by three bridges, one of stone and two of iron, and a magnificent view of the city can be obtained from Lendal Bridge with the Minster straight ahead, St. Mary's Abbey to the left, and Government House in the distance—for York is a garrison town and the General of the Northern Command lives there; on the right the Guildhall comes right down to the river. This view reminds one of Venice. The Guildhall dates from the fifteenth century, and at present is used for the various municipal offices. It was originally built as a theatre for the mystery and miracle plays in which the old craft guilds took part, and in the sixteenth century plays were performed there by travelling companies attached to the sovereign or some nobleman. The roof of the hall is supported by massive oak pillars, and the painted glass windows depict historical events connected with the city. Behind the Guildhall is a room with panelling concealing a secret staircase leading down to the river, and in that room £200,000 was paid to the Scottish Army for handing Charles I over to the English Parliament.

The stone for building the Minster was brought to the city by water and landed below the Guildhall, whence it was conveyed to the Minster up a narrow street, which thus acquired the name of Stonegate. Stonegate now contains the chief antique shops of the city. Not far from Stonegate are the Shambles, a narrow street full of butchers' shops, and the upper stories hang over so far that it is possible for people to shake hands across the street. In olden days the business of the city was in the hands of its freemen, and each trade had its own guild.

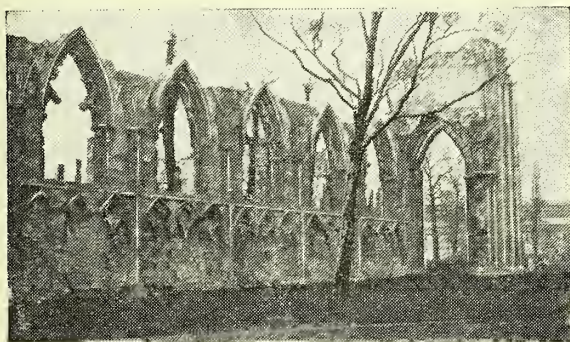
The Guild of the Merchant Adventurers still exists, and its hall in Fossgate is one of the most interesting



BOOTHAM BAR AND YORK MINSTER

spots in the city. Thanks to the generosity of many of the past and present Merchant Adventurers and to the tireless energy of Dr. Maud Sellers, who has the honour of being the only woman in the world to be admitted a member of a city guild, this hall is being restored

as nearly as possible to its original state. It stands in a low flagged garden with the river Foss running past, and over the main doorway are the Merchant Adventurers' arms and motto, "Dieu nous donne Bonne Aventure." These merchants "adventured" abroad with their cloth. There is a good deal of fourteenth-century work still left. The great hall has a very fine timbered roof and lovely fireplace. The place is not primarily a museum, but contains a number of interesting relics—an old powder chair, a lovely fifteenth-century chest originally bought for six and eightpence, and a Scandinavian bed, complete with pistol and treasure box. The chapel is a good example of a seventeenth century Puritan chapel.



ST. MARY'S ABBEY

There are many old Georgian mansions scattered over the city; and the Assembly Rooms, Mansion House and Theatre Royal could all tell interesting tales of older days. The Mansion House, the official residence of the Lord Mayor, also houses the civic plate, including a number of old swords, the mace, the very beautiful Lord Mayor's chain, which dates from 1603, some tankards, a rose water basin and ewer, and an old gold loving cup. There were a number of coffee houses in the seventeenth and eighteenth centuries, and the name persists in Coffee Yard.

York is the assize town for the North and East Ridings, and the Assize Courts are held at the Castle. Here is Clifford's Tower, built by William the Conqueror "to put fear into the men of York." St. William's College is another building on which a good deal of restoration work has been done. At one time the residence of the Prior of Hexham, it later became the home of the Chantry priests, and is now used by the Dean and Chapter. The Royal Printing Press was established there at one time.

York was a centre-point of the Roman Empire in England, and therefore, in Roman times Eboracum (York) was very important to England. Legend has it that a grandson of David, King of Israel, founded a city there about the same time as the Siege of Troy was taking place. Be that truth or legend, the Romans, after conquering the city, garrisoned it, and built a walled-in fort with a number of towers. These towers were ten-sided—hence the name multangular—and a portion of one tower and of the Roman wall can still be seen in the Abbey grounds. The Emperor Hadrian came to York in 120 A.D., when he came to superintend the building of Hadrian's Wall, and other emperors came too, amongst them the father of Constantine the Great. He died in the city, and Constantine left soon after. The Romans abandoned York about 410 A.D.

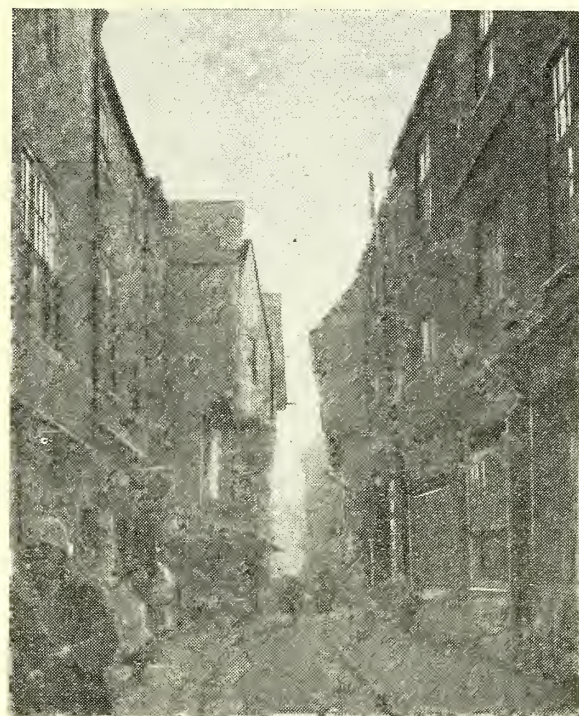
It is known that Christianity did exist in Roman York; but the ruins of St. Mary's Abbey are those of the building begun in 1271 by Abbot Simon de Warwick. The remains of St. Leonard's Hospital, founded by King Athelstan, stand in the same grounds, and the museum contains many interesting relics of the Roman occupation, including the auburn coil of hair taken from a Roman lady's coffin, and also some relics of the famous Dick Turpin. Close to St. Mary's Abbey is the King's manor, now used as a school for the blind. Originally the Abbot's house, after the dissolution it

changed its name, and was the residence of the Lord President of the North. Charles I once lived there for a month.

It is difficult in a short article to do any justice to York Minster, but there is a small book, entitled "York Minster," by the Rev. F. Harrison, the Minster librarian, which gives a splendid account of that magnificent building. The church was the dominant factor in the social life of mediæval England, and so it is not surprising that so much money and labour and skill were devoted to the building of the magnificent churches. York Minster impresses one by its massiveness, and gives a strong impression of unity of design, although it was built at various times.

The first Christian Church was built on the Minster site in 627 A.D., and the one thousand three-hundredth celebration of this took place in 1927. In this small wooden building, dedicated to St. Peter, Edwin, King of Northumbria, was baptised by Paulinus. As a result there was a revival of Christianity and Edwin began a larger stone building. But he was killed in battle before it was finished. This church was later destroyed by fire. The first bishop after the Conquest was Thomas of Bayeux; he rebuilt the Minster, reinstated the canons and appointed a dean and treasurer. Gradually, over many years, the present building grew up. On entering the Church from the West or the South doors one is struck with the simplicity, the vastness, and; from the south door, with the beauty of the Five Sisters window, which dates from the thirteenth century. This window takes its name from the story that five maiden sisters worked the design in tapestry. The Crypt of the Minster contains a bit of Archbishop Thomas's eleventh-century work, and also throws much light on the plan of Archbishop Roger's Church. The site of King Edwin's baptism can also be seen.

The nave is very large, and so is the choir; the transepts are magnificent, and their beauty is greatly



THE SHAMBLES, YORK

enhanced by the fact that the lantern tower is open to its summit. The Five Sisters window in the north transept, which was replaced after preservation a few years ago, and dedicated by H.R.H. the Duchess of York, as a memorial to the women who lost their lives in the Great War of 1914-18, is outstanding in its conception its simplicity, and its grandeur. Five

enormous lancet lights, with five smaller ones above, of grisaille glass, with a touch of colour in the bottom, compose this window. Near to it is a screen bearing the names of the women to whom its preservation is a memorial. There are a number of Memorial Chapels to Yorkshire regiments in the Minster, and many old flags. In the north transept there is also the fourteenth-century tomb of William of Greenfield; on this tomb is the only mediæval brass in the Minster, though it is incomplete.

Everything in York Minster is on a very large scale, and the Chapter House is no exception to this rule. It is the most beautiful Chapter House in England. The original doors, decorated with elaborate ironwork, are still there, and two great cope-chests belonging to the thirteenth and fourteenth centuries are housed there. The proportion of the nave is not perfect, but that of the Chapter House is, and it forms a splendid example of decorated art. There are forty-four stalls in the recesses. One of the wonders of the Minster—and even of the world—is the east window, which contains its original early fifteenth-century glass. Part of it gives the most complete representation of the Apocalypse in the world, and another part deals with Old Testament scenes. This window is as large as a

tennis court, and yet no piece of glass is much bigger than the palm of a hand. It is the work of John Thornton, of Coventry.

The Choir at York suffered severely in the fire of 1829, and the present stalls are not so ornate as the original ones. "Big Peter," the third largest bell in England, is housed in the northern tower. It weighs nearly eleven tons. There are 109 windows which contain mediæval glass—probably more than half of the mediæval glass in the world. Though a good deal of the rich treasure which the Minster contained was lost in the Reformation, the windows at York do not seem to have fared as badly as many others. The Minster Library probably dates from 669 A.D.; it became famous under Alcuin, who founded a school, of which the present St. Peter's School, at York, is a descendant. It is difficult to reconcile the ancient glory of York with present-day needs, and the narrow streets lead to a serious congestion of traffic. This is being remedied where possible without destroying the old landmarks, and visitors will find that however long they stay they will not have time to assimilate more than a fraction of the beauty and the history of the ancient city. In 1377 A.D., it had a population of 13,500; to-day the population is between 80,000 and 90,000.

A Holiday in Skye

By Mary McD. Bain, Ph.C.

IN Scotland we have a reputation for poor, wet weather; but last year the complaints came from English and foreign territory, when strangely enough we in the North had enjoyed a much better summer than usual—particularly in the North-West. Perhaps it will be of some interest to learn of the charm of a holiday spent in glorious sunshine on the island of Skye.

The journey, by road or rail, is a revelation of grandeur in itself. Our route was by West Highland Railway via Fort William and Mallaig, thence by steamer to the "Misty Isle." From Glasgow, by the Clyde lochs, Gareloch and L. Long, across to skirt L. Lomond, with its pretty wooded islands and the Ben in majestic outline in the background. Still travelling north, through beautiful glens, by the side of L. Treig, the waters sparkling in the morning sunshine, and the mountain tops just clearing of mist, we at length arrive at Fort William. Leaving this station, the train takes a course along the end of L. Linube, from which there is a fine view of Ben Nevis, with its blanket cap of snow sparkling in the sunshine. The camera enthusiast may be now kept busy at the corridor window with the incomparable variety of glen, mountain, waterfall and loch scenery. Loch Eil, L. Shiel and L. Eilt pass in quick succession, and then, past Glenfinnan, we come to Loch Ailort (looking seaward), and are thrilled to learn the true meaning of the words, "by Ailort and Morar to the Sea," from our beautiful Hebridean song, "The Road to the Isles." Very soon we arrive at Mallaig, and there board the steamer.

Over the Sea to Skye

An hour or so after leaving Mallaig, we call in at Kyle of Lochalsh; here passengers and cargo are reshipped for other parts—mainland (north) or outer Hebrides. From Kyle across to the island of our destination, the channel only measures half a mile. A ferry crosses here to Kyleakin on the island of Skye, but a four-hours' sail is yet to follow for the traveller bound for further north (Portree). The steamer calls at Broadford, a pretty little village lying in a beautiful bay, and in a very fertile, well-cultivated part of the island. We leave Broadford and pass into the Sound of Raasay further north. The Skye territory is now becoming less fertile and more mountainous and wild. L. Ainort and L. Sligachan—two very fine sea lochs—are passed on the

left, and the island of Scalpay (fossils) lies to the right. Passing through the S. of Raasay, the Skye hills, with grassy hem along the sea edge and barren rocky shoulders rising higher, frown down on us; and after a full day's journeying (twelve hours) we turn into a wonderful bay and natural harbour, and at length are made fast to Portree pier.

Portree

What a quaint little place this is, with its single row of houses, backed by the pretty little wooded mound, Fancy Hill (locally known as the "lump")! After a night's rest we go out to look around Portree. From

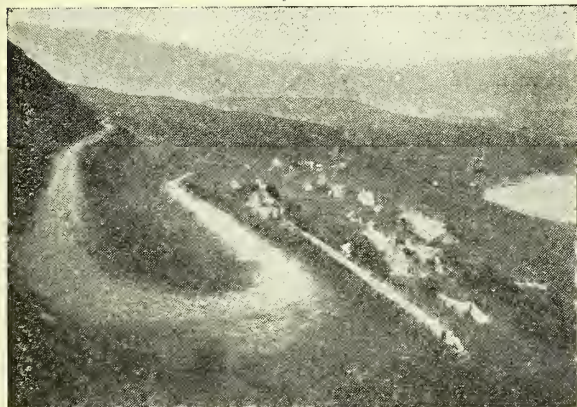


PORTREE

the high part of the road on the opposite side of the bay to the pier, what a marvellous view greets us! The water, calm and glistening in sunshine, the yachts, fishing boats, etc., anchored in the bay, and away to the left background that world-famed ridge of mountains, the Coolins. Let me quote H. V. Morton "In Search of Scotland."

"I have spent nights in the Sinai Desert, I have slept in the Valley of the Dead in Egypt. I have seen the sun rise from the summit of the Silvrettahorn in Switzerland . . . but I have never in all my life seen anything like the Black Coolins standing grape-blue and still in morning sunshine."

The inhabitants of Skye are all truly highland in type, and outside of the "capital" (Portree) lead a very secluded life, especially in some of the isolated villages. In fact, one cannot but be filled with admiration for those who come from this simple and very beautiful life and content themselves to dwell and work in the cities of our mainland. Nowadays there is a very



UIG FROM THE "HAIRPIN BEND"

good service of buses, and the tourist has every chance of seeing a good part of the island in this way. The roads are not first-class, but to a hiker (and this island is a veritable home of hikers) this offers no obstacle.

Walking from Portree to Sligachan will form an indelible picture on the wall of the mind. The hills all around are green and fertile (grass-covered, at any rate). The scenery around Glen Sligachan curiously repels you and drives you in on yourself. Here you may walk for several miles and not encounter a human being, though nowadays the modern bus must make its way for those going further south. Sligachan is the centre for climbing the Coolins. The climbing, for those who are enthusiastic, should be very interesting—in places very difficult and thrilling, and withal very dangerous because of the mists which are ever and anon sweeping down and around the mountain-side.

Coruisk

One of the grandest and most wonderful of beauty spots is Loch Coruisk. By car we journeyed south to Sligachan and Broadford, and then cut across to the west coast of the island, to a very pretty place, Elgol, sloping down to the shore of the sea loch, L. Scavaig. Motor-boats convey passengers from here for three miles up to the head of the loch. The scenery is most impressive. Looking south, we see the islands of Soay, Rum and Eigg on the horizon. Looking ahead we are awed by the grandeur of the stone-grey hills around and the entire range of the Coolins, into the heart of which we seem to be sailing. Landed, and after half an hour's scrambling over rocks, we come in full view of L. Coruisk, an inland loch surrounded by the range of the Coolins. The silence here is truly "heard," and wonderful is the impression of wildness and sheer desolation. One feels oneself to be an intruder in this place!

On another scorching day we set out with rucksack and walked across the island by the moor road for ten and a half miles to Struan, a beautiful place on the shore of L. Bracadale. This is another good day's outing. On the way, at long intervals, we passed a few of Skye's very old thatched cottages, standing on the hill-sides and at distances from the road. During the double journey of twenty-one miles we met two road workers (making new ditches), two farm labourers in a cart, and one farmer—so far had we strayed from even civilised Portree.

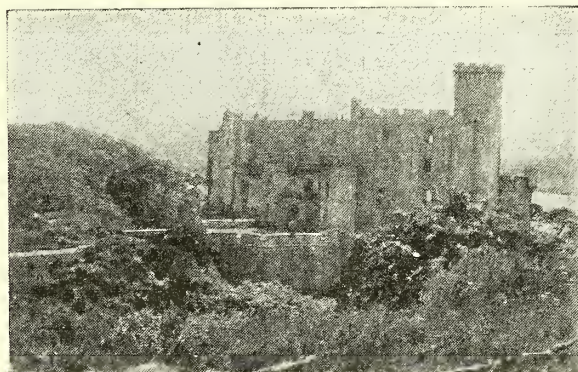
Dunvegan

To visit Dunvegan Castle from Portree, we proceeded by car to this ancient seat of the McLeod of

McLeod, and once again were favoured with glorious sunshine. To reach Struan, vehicles are obliged to make a detour of some twenty-five miles, for the above route is only a cart-track (locally called "string-road"). Dunvegan is probably the oldest inhabited castle in the country, and is in very fine condition. Here Dr. Johnson stayed for a time during his journey on the island. The castle is open to the public on two days a week, and two English ladies are in charge of the place for the purpose of instructing the visitors (including Scots) in the castle's history. The walls are from nine to twelve feet thick in places, and there is an old dungeon, said to be now used as a wine cellar. There are many of the old family pictures on show, and one or two very fine Raeburns. The journey back was via L. Snizort (sea loch), through Edinbain and Skeabost back to Portree. The vicinity of Snizort is a very fertile part of the island.

The Old Man of Storr

There are many fine walks within a shorter distance of Portree. Four miles out on the Staffin Road we come to L. Foda, a small fishing loch from which is obtained a fine view of Storr Rock, a bold headland of well-cut rock and a landmark known as the "Old Man of Storr." From Storr, we had a fine view over Isle of Rona and could clearly see the hills of Ross-shire. The north-end tour is a most interesting one, via Uig (a beautiful village above a fine sandy bay), past the Quiraing, a rocky promontory of great interest to the nature student. On further, via the ruins of Duntulm Castle and Flodigarry House (of Flora MacDonald memory), and back by Leilt Waterfall and Storr Rock. Portree makes a very good centre for touring the "misty isle." Accommodation for visitors is, of course, limited.



DUNVEGAN CASTLE

and large numbers could not at any one time hope to find hotels in great number or variety. We travelled back, sailing to Kyle of Lochalsh, thence by rail amid grand scenery to Inverness. The British Pharmaceutical Conference intends visiting Aberdeen this year, so it is to be hoped that those who have the opportunity will see Scotland—the true Scottish Highlands—and maybe the islands too.

EDUCATION IN SALESMANSHIP.—An attack on the prevailing conception of education in salesmanship was made by Dr. John Murray, principal of the University College of the South West, in the course of a recent address. "In my opinion," he said, "it is the quality of the goods which sell them, and not the words of the salesman. If I enter a shop and find someone with a gift for salesmanship I promptly walk out again. I think buyers instinctively dislike and distrust salesmanship. They want no professional tricks, no psychologising, no prying into the depths of their personalities. They like decent, honest persons to serve them, with the ordinary good manners that come from nature and education—a general education, and not a special one in the tricks of any trade."

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, August 11

ALTHOUGH the markets at the moment are rather quiet on account of the holiday season, there is a more hopeful feeling about, and prices for many commodities are firming up. The pharmaceutical chemical market remains steady with no material alteration to record, except that the makers of bismuth salts have slightly advanced their prices owing to a decline in sterling. In crude drugs business has been fair with the general tone steady. Aconite root is quoted cheaper. Buchu remains steady. New crop chamomiles promises to be of fine quality. Cod-liver oil remains fully steady. Senega continues firm. Valerian root is reported dearer at source. In essential oils the improved tone reported last week has been maintained. Ceylon citronella continues to be a firm market. Java has advanced on the fall in sterling. Lemon remains quiet and unchanged. Orange remains very steady. The French lavender crop is reported to be good, but the yield is expected to be slightly less than last year. In industrial chemicals business has been slow, but prices are keeping steady in most instances.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	August 11	Value of the £
Amsterdam ..	Fl. to £	12.107	8.66	14/3½
Berlin ..	Mks. to £	20.43	14.62½	14/3½
Brussels ..	Belga to £	35	25.12½	14/4½
Copenhagen ..	Kr. to £	18.159	183½	20/7½
Lisbon ..	Esc. to £	110	110	20/0
Madrid ..	Ptas. to £	25.22½	43½	33/11½
Milan ..	Lire to £	92.46	68½	14/7½
Montreal ..	Dol. to £	4.86½	4.01	16/6
New York ..	Dol. to £	4.86½	3.49½	14/4½
Oslo ..	Kr. to £	18.159	193½	22/0
Paris ..	Fr. to £	124.21	89	14/3½
Prague ..	Kr. to £	164.25	118	15/3
Stockholm ..	Kr. to £	18.159	19.50	21/5½
Warsaw ..	Zloty to £	43.38	31½	14/6
Zurich ..	Fr. to £	25.2215	173½	14/2½

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

PRICES show little change on the week, while the markets continue to be quiet. Makers' prices of bismuth salts have been slightly advanced.

ACEFANILID remains quiet in demand, and is quoted unchanged: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOL meets with a moderate volume of small business: 56 lb., 7s. 3d.; 23 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb., in 7-lb. tins.

AMIDOPYRIN.—Dealers' prices are steady: crystals, two cwt., 17s.; less than two cwt., 17s. 6d. per lb., with powder 2d. per lb. extra.

ASPIRIN continues very steady at makers' and dealers' prices. Home trade: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 23 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 1 lb., 3s. 4d., per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d. per lb., f.o.b.; less than one cwt., 2s. 9d. per lb., ex works.

BENZOIC ACID (B.P.) continues steady: quantities, ex works, 1s. 10½d.; spot parcels, 1s. 11d. to 2s. per lb., ex store.

BROMIDES.—The market is steady with business moderate: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; smaller quantities, 2s. 1d. per lb.; potassium, B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; smaller quantities, 1s. 10d. per lb.; sodium, B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; smaller quantities, 2s. per lb., net, without engagement. Special prices for larger quantities.

BISMUTH SALTS.—Makers' prices have been advanced owing to a decline in sterling, as follows:—

	8 lbs. and under 28 lbs.	28 lbs. and under 1 cwt.	Not less than 1 cwt.
	Per lb. s. d.	Per lb. s. d.	Per lb. s. d.
Carbonate ..	7 3	6 9	6 6
Citrate ..	9 7	9 1	8 10
Nitrate cryst. ..	5 1	4 7	4 4
Oxide ..	10 9	10 3	10 0
Salicylate ..	8 0	7 6	7 3
Subchloride ..	10 7	10 1	9 10
Subgallate ..	7 8	7 2	6 11
Subnitrate ..	6 5	5 11	5 8

A rebate of 3d. per lb. will be allowed on sales of not less than 2 cwt. (either for prompt delivery or on contract) provided delivery is completed or paid for within three months. Liquor bismuthi (B.P.) in w-qts., 1s. 1½d. per lb.; in six w-qts., 11d. per lb.; in 12 w-qts., 9½d. per lb.; in 36 w-qts., 9d. per lb., without engagement. Previous price alteration was on March 9.

CHLORAL HYDRATE.—There is no change in makers' prices: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 4d.; one cwt., 3s. 5d.; 56 lb., 3s. 6d.; 23 lb., 3s. 7d.; 14 lb., 3s. 8d. per lb.; 23-lb. jars, one penny per lb. extra.

CHLOROFORM.—Makers' prices for home trade are unchanged: in drums, 2s. 3d. to 2s. 6d.; winchesters, 2s. 3½d. to 2s. 6½d.; 2-lb. bottles, 2s. 4½d. to 2s. 7½d.; 1-lb. bottles, 2s. 5½d. to 2s. 8½d.; 8-oz. bottles, 2s. 6½d. to 2s. 9½d.; 4-oz. bottles, 2s. 8½d. to 2s. 11½d., for 10 cwt. down to 56-lb. lots; carriage paid on minimum cwt. lots.

CITRATES.—Home makers' prices are unchanged: potassium citrate, B.P., 1s. 7d.; sodium citrate, B.P.C., 1923, 1s. 8d.; ferri ammon. cit. B.P. (brown), 1s. 9d. per lb., in 23-lb. lots; 7-lb. lots, 5d. per lb. dearer.

CITRIC ACID (B.P. CRYSTALS).—Home makers continue to quote at 1s. per lb., less 5 per cent. discount, nominal and without engagement.

CREAM OF TARTAR.—Home makers' quoted price for 99 to 100 per cent. is reduced to 89s. per cwt., less 2½ per cent. discount, nominal and without engagement.

HYDROQUINONE.—Dealers' prices are unchanged; business fair in limited quantities: ten cwt., 4s. 8½d.; five cwt., 4s. 9½d.; two cwt., 4s. 10½d.; one cwt., 4s. 10½d.; 56 lb., 4s. 11½d.; 23 lb., 5s. 1½d.; 14 lb., 5s. 3½d.; 7 lb., 5s. 5½d. per lb., carriage paid.

LACTIC ACID (B.P.).—Business is limited; market steady: quantities, in carboys, 1s. 5½d. to 1s. 6d. per lb.; small lots, in demijohns and winchesters, 1s. 7d. to 1s. 8½d. per lb., carriage paid.

METHYL SALICYLATE (B.P.).—Makers' and dealers' prices steady: one ton and over, 1s. 4½d.; ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 6½d.; smaller quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' prices are steady but business remains slow: two cwt., 18s. 9d.; one cwt., 19s. 3d.; 56 lb., 19s. 9d.; small parcels, 20s. 6d. per lb.

PHENACETIN.—Business is quiet: crystals, ten cwt., 5s. 3d.; five cwt., 5s. 4d.; two cwt., 5s. 6d.; and less, 6s. per lb., with powder 2d. per lb. extra.

PHENAZONE has remained rather quiet: crystals, ten cwt., 3s. 3d.; five cwt., 3s. 6d.; two cwt., 3s. 9d.; and less, 10s. 3d. per lb., with powder 2d. per lb. extra.

POTASSIUM PERMANGANATE (B.P.) continues to find a fair demand; market steady: quantities, in drums, 8½d. to 9d.; druggists' parcels, 9½d. to 10d. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Dealers are quoting spot from 4s. 8d. to 5s. per lb., as to quantity.

PYROGALLIC ACID.—There is no change in makers' prices: one cwt., 6s. 9d.; 56 lb., 7s.; 23 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb., in 7-lb. tins.

QUININE SULPHATE.—There is no change in the Convention price at 2s. 4d. per oz., carriage paid, on bulk quantities.

RESORCIN has been quiet; market steady; crystals, one cwt., 4s. 6d.; 56 lb., 4s. 7d.; 28 lb., 4s. 8d.; 14 lb., 4s. 10d.; 7 lb., 5s.; less than 7 lb., 5s. 6d. per lb., with powder 3d. per lb. extra.

SALICYLIC ACID (B.P.).—Makers' prices are steady and business is about normal: one ton, 1s. 5d.; ten cwt., 1s. 5½d.; five cwt., 1s. 6d.; one cwt., 1s. 6½d.; small parcels, up to 2s. per lb.

SALOL is unchanged at Convention prices: crystals, two cwt., 5s. 2½d.; one cwt., 5s. 4½d.; 56 lb., 5s. 6d.; smaller parcels, 5s. 7½d. per lb.; powder, 2d. per lb. extra.

SULPHONAL.—Dealers' prices are steady but business is quiet: crystals, two cwt., 15s.; one cwt., 15s. 6d.; 56 lb., 15s. 9d.; small parcels, up to 16s. 6d. per lb.; powder 2d. per lb. extra.

TARTARIC ACID (B.P. CRYSTALS).—Home makers quoting 11½d., per lb., less 5 per cent. discount, nominal and without engagement.

THYMOL is easy as quoted, and the market remains dull: synthetic, fine white, one cwt., 5s. 10½d.; 56 lb., 6s.; 28 lb., 6s. 1½d.; 14 lb., 6s. 3d., per lb.; ex ajowan seed, one cwt., 7s. 6d.; 56 lb., 7s. 7½d.; 28 lb., 7s. 9d.; 14 lb., 8s. per lb.

VANILLIN meets with a limited business: ex guaiacol, one ton, 14s. 3d.; ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.; ex clove oil, 16s. to 18s., per lb., as to quantity, from one ton to less than 14 lb.

Crude Drugs, etc.

ACONITE ROOT.—The market is quoted cheaper, Japanese, 55s.; Napellus, 65s.

AGAR-AGAR.—A steady business is being done: spot, Kobe No. 1, 3s.; No. 2, 2s. 10d.; Yokohama No. 1, firm at 3s. per lb. Shipment, Kobe No. 1, 2s. 2½d.; No. 2, 1s. 10d.; Yokohama No. 1, 1s. 11d. per lb. c.i.f.

ANTIMONY remains steady. Chinese crude, spot, £16; shipment, £13 10s. c.i.f. Chinese oxide, spot, £25; shipment, £19 c.i.f.

BALSAMS have remained quiet. *Tolu*, spot, about 3s.; *Canada*, 3s. 6d. to 3s. 9d. per lb.

BELLADONNA.—Good test root is quoted at about 55s. per cwt.

BUCHU.—The market remains very steady, and the scarcity of good green round leaves continues. Fair green available at from 11d. to 1s. 1d.; off colour, 10½d. to 11d.; ovals are unchanged at from 8½d. to 9½d. according to colour.

CAMPHOR.—Japanese, spot, slabs, 2s. 4½d.; tablets, 3s. per lb. Shipment, slabs, 1s. 10½d.; flowers, 1s. 11d.; tablets, 2s. 4d. per lb. c.i.f. English refined is quoted unchanged; flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz., and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¾ oz., and 1 oz., 3s. 6d. per lb.

CASCARA SAGRADA.—The spot market is quoted at about 52s. 6d. per cwt. for 1931 peel. Shipment, August-September, is a little dearer at 36s. 6d. per cwt. c.i.f. for good bulk quantities.

CHAMOMILES.—New crop, about 125s. per cwt., duty paid, for August delivery; new crop promises to be of fine quality.

CLOVES.—The market is quiet. Zanzibar, spot, 7½d.; shipment, August-October, 7½d.; September, 7½d. c.i.f. Madagascar, spot, 7½d. per lb.

The landings of Zanzibar in London during the week ended August 6 were *nil*, and the deliveries 47, leaving a stock of 1,724, against 355 in 1931. From January 1 to date landings of Zanzibar have been 4,351, against 1,070 in 1931, and the deliveries 4,614, against 1,734 in 1931. Landings of Madagascar for the week ended August 6 were *nil*, and the deliveries 32, leaving a stock of 1,554, against 1,298 in 1931. Landings of Madagascar this year to date have been 814, against 2,183 in 1931, and the deliveries 277, against 1,791 in 1931.

COCONUT (DESICCATED).—The market is dearer: spot, fine, 25s. 6d.; medium, 25s.; shipment, halves, August-September, 21s. 9d. per cwt. c.i.f.

COD-LIVER OIL.—This market remains fully steady, and shippers are holding for full prices. Finest steam-refined non-freezing medicinal oil, 82s. 6d. per 25-gallon barrel, c.i.f., London. Spot, 97s. 6d. per barrel, ex wharf, London, duty paid. Some brands may be slightly cheaper.

GELATIN continues to attract a fair amount of business; the market is steady: spot, gold leaf, 2s. 2d.; silver leaf, 2s.; bronze leaf, 1s. 8½d.; thin leaf, 1s. 7½d. per lb., in cwt. cases.

GUM ACACIA.—Business continues quiet, but there is no material alteration in prices. Spot, Kordofan, cleaned sorts, 37s.; natural, 35s.; bleached, 75s. to 77s. 6d. per cwt. Shipment, Kordofan, cleaned sorts, 31s. 6d.; natural, 29s. 6d. per cwt., c.i.f.

HONEY.—The market remains steady with former prices maintained.

HYDRASTIS.—The market is slow and unchanged; spot, about 4s. 6d. per lb.

IPECACUANHA.—The market is easy as quoted. Matto Grosso, 4s. 9d.; Minas, 4s. 3d. per lb., and less, for good quantities.

MENTHOL remains dull. K/S brands on spot at about 12s. 6d. per lb., and less for good quantities. Shipment, August, 10s.; September, 10s.; October-December, 9s. 6d. per lb. c.i.f.

OPIMUM.—The shipment market continues firm at the recent increase, being equivalent to 1s. 4d. per unit, landed and duty paid. A shipment of 200 cases from the Far East is reported.

PEPPER is firmer with Lampong, spot, 6½d.; shipment, July-August, 5½d.; August-October, 5½d., c.i.f. Tellicherry, spot, 7d.; shipment, August-September, 64s. per cwt. c.i.f. Aleppy, spot, 6½d.; shipment, August-September, 60s. 6d. per cwt. c.i.f. White Muntok, spot, 7½d.; shipment, July-August, 6½d.; August-October, 6½d. c.i.f.

PIMENTO.—Although rather quiet spot shows a further advance to 3d. per lb.; shipment, August-September, 27s. per cwt. c.i.f.

QUILLAYA BARK.—Whole bark is quoted at about 28s. per cwt.

SARSAPARILLA.—Grey Jamaica is quoted at about 1s. 10d. to 1s. 11d. per lb. Native, mixed colours, 1s. 1d. to 1s. 2d. per lb.

SQUILL.—New crop, best white, is quoted at about 25s. per cwt., duty paid, August delivery.

SEEDS.—ANISE.—Spanish, 52s.; Turkish, 34s. 6d.; and Russian, 36s. 6d. per cwt., on spot. CANARY.—Spot, Mazagan, 15s.; Tangier, 14s. 6d.; Kenitra, 14s. 3d. LINSEED.—Spot, Mazagan, 13s. 3d.; Morocco, 12s. 3d.; Plate, re-cleaned, 13s. CORIANDER.—Very little business passing; 1929 crop, 16s.; wormy, 13s. 6d.; new crop for shipment, 15s. 6d. c.i.f. CUMIN.—Morocco, spot, 34s.; 30s. c.i.f. quoted for shipment. FENUGREEK.—Morocco, 13s. 6d. spot, and 10s. 6d. c.i.f., for shipment. CARAWAY.—Dutch, spot, 31s. to 31s. 6d., duty paid. MUSTARD.—English, 20s. to 31s. per cwt. according to quality.

SENEGA continues firm, with the shipment prices for new crop root standing at from 1s. 6½d. to 1s. 7½d. per lb. c.i.f. Spot, which is firmly held, is still being offered at 1s. 7½d. per lb.

SENA.—Alexandrian pods still remain quiet, and finest hand-picked are at present selling very slowly. Manufacturing pods continue steady at from 4½d. to 5d. per lb. Timnevelly leaves continue steady, and several parcels have recently been cleared. Hand-picked pods continue in short supply on the spot, and higher prices are now being asked, 6½d. to 7d. per lb. being the general quotation. Shipment offers are still difficult to secure, and the market generally seems very firm.

VALERIAN ROOT is reported dearer at source at 45s. per cwt. c.i.f.

VANILLA.—The following prices are quoted for spot supplies of Bourbon: extra quality, 4s. 9d. to 7s.; superior, 4s. 7d. to 8s. 4d.; first splits, 4s. 7d. to 7s. 4d. per lb. as to size, from 4½ inches up to 8 inches; shipment from Continent: Bourbon, extra, 4s. 6d. to 11s. 9d.; superior, 4s. 4d. to 11s.; surfine, 4s. to 10s. 9d.; first splits, 4s. 3d. to 9s. 6d.; second splits, 4s. 1d. to 9s. per lb., ex warehouse, duty paid.

WAX (VARIOUS).—These markets have been generally quiet, but quoted prices are about level on the week. CARNAUBA, fatty grey and chalky grey, is steady at 85s.; medium yellow, steady, 140s.; fine yellow, 145s. CANDELLILA is unchanged at 90s. per cwt. SPERMACETI, steady at 9½d. per lb., spot. PARAFFIN is about steady from 22s. 6d. to 50s. per cwt., as to melting point. CERESIN is quoted from 35s. to 80s. per cwt., as to colour and melting point. BEES' is about steady, with the market quiet; bleached, discs, £7 10s.; slabs, £7 5s.; yellow refined, £5 12s. 6d.; yellow crude, 97s. 6d. per cwt., spot.

Essential Oils, etc.

THE improved tone reported last week has been maintained, and an increased firmness is noticed in several cases. Citronella and lemongrass oils are in good demand, and supplies are not always easy to find. The citrus oils, however, are quiet, and interest in lemon and orange has subsided.

ALMOND.—There is no change in last week's prices of about 7s. 6d. per lb. for s.a.p.; sweet almond, about 2s. per lb.

ANISE (STAR).—The market has been dull and is quoted unchanged: spot, "Red Ship," in leads, 2s.; in tins, 1s. 10d.; in drums, 1s. 9d.; shipment, in leads, 1s. 7½d.; in tins, 1s. 6½d.; in drums, 1s. 5½d. per lb. c.i.f.

BERGAMOT.—The Consortium quote at about 9s. 6d. per lb.; business has been dull with spot, sellers at very keen prices.

BOIS DE ROSE.—The market is dull but spot values are firm. Brazilian, about 4s. 6d. per lb. Shipment is nominal, with no firm offers. Cayenne continues scarce on spot at 9s. 3d. to 9s. 6d. per lb.

CARAWAY has been quiet, with Continental twice rectified, 8s. to 8s. 4d. per lb., and slightly less for large bulk quantities.

CASSIA.—Spot is steady at 3s. 9d. to 3s. 10d. per lb.; shipment, 3s. 1½d. per lb. c.i.f.

CEDARWOOD is about unchanged and in small demand: spot, bulk quantities, 1s. 10d. per lb., and up to 2s. for small lots.

CINNAMON LEAF.—Business has been slow, with spot about 3s. 3d. to 3s. 6d. per lb., as to quantity.

CITRONELLA.—Ceylon citronella continues to be a firm market, and shippers are reluctant to offer; nominal quotation forward, 1s. 8d. per lb. c.i.f.; spot is scarce and is quoted nominally at 1s. 9d. to 1s. 10d. Java has advanced on the fall in sterling, and is quoted on spot at 2s. 9½d. and shipment at 2s. 6d. per lb. c.i.f.

CLOVE is unchanged at 4s. 4d. to 4s. 6d. per lb. as to quantity for English 85 to 90 per cent. Madagascar, spot, about 3s. 9d., and shipment about 2s. 10d. per lb. c.i.f.

EUCALYPTUS shows no change: Spanish, 70 to 75 per cent., 1s. 2d.; Australian, 70 to 75 per cent., 1s. to 1s. 0½d.; 80 to 85 per cent., 1s. 1d. to 1s. 1½d. per lb., and slightly less for bulk quantities.

GERANIUM continues quiet at about last week's quotation: spot, Bourbon, about 25s. per lb. Algerian, spot, about 24s. 6d. per lb.

LAVENDER.—Shipment quotations for good brands of new crop are round about 9s. to 9s. 6d. per lb. c.i.f.

LEMON remains quiet and unchanged: Sicilian, hand-pressed, on spot, about 4s. 3d. to 5s. 6d. per lb. Shipment, about 4s. 2d. to 5s. per lb. c.i.f. Californian, spot, 57 cents per lb., in drums.

LEMONGRASS is firm, sellers asking 1s. 9½d. per lb. c.i.f.; spot, about 1s. 11½d.

LIME.—The spot price for genuine West Indian distilled is about 35s. per lb.

MANDARIN shows no change, with spot quoted at 16s. per lb. for small quantities.

ORANGE.—The market remains very steady. Sicilian sweet, spot, 7s. 3d. to 7s. 6d.; shipment, 6s. 3d. to 6s. 4d. per lb. c.i.f. West Indian, hand-pressed, 5s. 6d. per lb. c.i.f. French Colonial, 5s. 9d. per lb. c.i.f. Californian, spot, 80 to 90 cents per lb. as to quantity.

PALMAROSA.—There is no change to report: spot, 8s. 6d. to 8s. 8d. per lb., as to quantity.

PEPPERMINT.—Japanese dementholised is quoted on spot at 3s. 10d. per lb. Shipment, August, 3s. 3d.; September, 3s. 2d.; October-December, 3s. 1d. per lb. c.i.f. American oil is firm as quoted for shipment at 1 dollar 50 cents per lb. c.i.f.

PETITGRAIN remains steady: spot, 4s. 3d. to 4s. 4d. per lb.

ROSEMARY.—Spanish on spot remains at about 1s. 9d. to 1s. 10d. per lb., as to quantity; shipment, about 1s. 5½d. per lb. c.i.f.

SASSAFRAS.—The market has been quiet with spot quoted at about 4s. 9d. per lb.

SPIKE.—The spot position continues steady with Spanish about 3s. 2d. to 3s. 4d. per lb. French is quoted at about 4s. 3d.

Industrial Chemicals, etc.

BUSINESS has slowed down over the holidays, but prices are keeping steady in most instances. The International prices for red and white lead are steady. Potassium carbonate and caustic potash are well maintained.

ACETIC ACID.—A limited demand with the market steady; 80 per cent. technical, £37 5s.; 80 per cent. pure, £38 5s. per ton, in barrels; glacial, pharmaceutical, 90 to 100 per cent., £59, in glass demijohns; glacial, in barrels, £48 per ton, carriage paid in U.K. **ACETONE.**—B.G.S. is in moderate request and values are maintained; quoted from £65 to £68 per ton, in drums, carriage paid in U.K. **AMMONIA (ANHYDROUS)** is being called for in small quantities; 99.95 per cent. material, 11d. to 1s. 2d. per lb. in loaned drums, carriage paid, and slightly less for important contracts. **AMMONIUM CHLORIDE.**—The market is steady; business rather quiet; grey galvanising, £20 per ton, in casks, ex store; slightly less for contracts. **ARSENIC.**—Continental is available on spot from £25 per ton, ex wharf, duty paid. **FORMALDEHYDE.**—The market is competitive, business limited; 40 per cent. by volume, from £28 per ton, in casks, ex store. **ISOPROPYL ALCOHOL** is moving off rather slowly at keen prices; first quality, ex acetone, 11s. 6d. to 12s. per gallon, in drums, carriage paid; ex "cracked petroleum" qualities, 9s. 6d. per gallon.

OXALIC ACID is steadier with cask lots of one cwt. at about 47s. 6d. **POTASH CAUSTIC** (88 to 92 per cent. solid).—Dealers' prices are steady, business rather quiet; quoted from £38 10s. to £40 10s. per ton, in drums, ex store. **POTASSIUM CARBONATE** has been in some demand; dealers quote at the following prices: 90 to 92 per cent., about £30 5s. per ton; 96 to 98 per cent., about £32 2s. 6d. per ton, in casks, ex store; lower prices for contracts. **RED LEAD.**—English, 5/10 cwt., £27 10s.; 10 cwt./1 ton, £27 5s.; 1/2 tons, £27; 2/5 tons, £26 10s.; 5/20 tons, £26; 20/100 tons, £25 10s.; over 100 tons, £25 per ton, less 2½ per cent., carriage paid; non-setting red lead, 10s. per ton dearer in each case; Continental material, £1 per ton cheaper; Convention prices are unchanged, and subject to withdrawal without notice. **SAL AMMONIAC** is about steady; but business is slow; dog-tooth crystals, £36 10s.; medium, £32 10s.; fine white crystals, £18 5s. per ton, in casks, ex store; slightly less for contracts. **SODA CRYSTALS (CARBONATE)** is steady at makers' price for home trade of £5 5s. per ton, in bags, f.o.r. works. **SODIUM ACETATE** is slow, but prices are holding at about £22 per ton in casks, ex store. **SODIUM BICARBONATE.**—Makers' price for home trade is steady; refined, in bags, £10 10s. per ton, carriage paid. **SODIUM CHLORATE.**—The demand is slow; bulk quantities, 3d. to 3½d. per lb.; small parcels, from 4d. to 4½d. per lb., ex store. **SODIUM HYPOSULPHITE.**—The market is steady and business fairly good; dealers quote pea crystals in one-cwt. kegs, £15 per ton; commercial quality, £9 10s., in casks, ex store; makers' price for pure crystals to home consumers on contract £15 per ton, carriage paid to buyer's works. **SODIUM PRUSSIAN** remains dull, but steady; quantities, 5d. to 5½d. per lb.; smaller parcels from 6d. per lb., ex store.

WHITE LEAD.—Dry, English, less than five tons, £37 10s.; 5/15 tons, £32 10s.; 15/25 tons, £32; 25/50 tons, £31 10s.; 50/200 tons, £31 per ton, less 5 per cent., carriage paid; Continental, £1 per ton cheaper; ground in oil, English, 1/5 cwt., £47; 5/10 cwt., £45; 10 cwt./1 ton, £44 10s.; 1/2 tons, £43 10s.; 2/5 tons, £42; 5/15 tons, £39; 15/25 tons, £37 10s.; 25/50 tons, £37; 50/100 tons, £36 10s. per ton, less 5 per cent., carriage paid; Continental material, £2 per ton cheaper; Convention prices are unchanged, and subject to withdrawal without notice.

French Lavender

We are informed by Charles Zimmermann & Co. (Chemicals), Ltd., that the crop of French lavender is good, but the yield, owing to climatic conditions, is expected to be slightly less than last year. The carry-over from last year's crop is small, estimated at eight tons, whereas the previous year a large amount was brought forward. From the middle of March until early this month, rain has continually fallen. The crop, therefore, is three weeks late; distillation is not likely to be in full swing until the beginning of next week. The average price paid last year for the herb was from 40 to 50 frs. per 100 kilos; this year distillers offer about 30 frs., but growers consider this too low, and are asking 40 frs. Should this latter price not be agreed on, there is a possibility that a large amount of lavender will not be cut. With the small amount available from last year, and should a strong demand be experienced, then only higher prices can be expected.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

Ancient and Modern Perfumery

SIR,—The article by Professor Guido Rovesti on "Perfumery in Etruscan and Roman Times" in the *C. & D.* Annual Special Issue is one of the most interesting I have read for some time. Particularly so to me was the quotation from the Dialogues of Lucian about the Greek women. Having had some experience of pharmacy in Southern climes, with perhaps unusual facilities for gaining an insight into the home lives of the peoples, it recalls to me more than one household with which I was familiar, where the ladies of the family were not presentable before midday either in face or costume, especially the latter, which in the intimacy of the home in a hot climate was scanty. But in the cooler hours of the evening when visits were paid or concerts and theatres attended, these same ladies were dressed in the latest fashions and covered with cosmetics and perfume. To an Englishman the mixture of odours in a crowded room was at times not over pleasant. Truly there is nothing new, we read that there was a "Buy Roman" campaign in 90 B.C., two thousand years later we imagine ourselves modern with "Buy British." There appears to be little which Pliny did not know about perfumes—every pharmacist rubs a few drops of perfume on his hand to judge when presented with a sample. Nearly every toilet cosmetic on sale now was in use in some form or other in those long ago days, the Mask of Poppoia was the early counterpart of the clay pack; we sell to-day deodorants, hair dyes, rouges, powders of all colours, and the nails are tinted various shades of red from natural to vivid with nail varnish if not with henna, the latter being in use now as a hair reviver. And the illustrations of perfume jars in the shape of animals might well have inspired the designs for the bath salts containers in the Christmas windows.—Yours faithfully,

COSMETICIAN (1/78).

Mechanising the Pharmacy

SIR,—The remarks of "Futurist" on "Mechanising the Pharmacy" (*C. & D.*, July 16, p. 68) read as though the best results can only be obtained by reducing the work of the pharmacy to mechanical methods with the aid of machinery. A little reflection will show that there is still something to be said for personal initiative. In the hands of manufacturers there is no doubt that up-to-date machinery and equipment can turn out cheap packs; but if the machinery is not working to capacity all the time, the capital outlay and the upkeep would soon prove more costly than the saving effected in production. Therefore for the pharmacist the cost would be out of proportion to the output required, and he could only avail himself of mechanisation by purchasing from the manufacturer who is running a large plant. Other factors arise. The manufacturer finds that the drug trade is not a sufficient outlet and turns to the other shopkeepers and bazaars to increase his turnover, when the pharmacist becomes merely a distributor and is no different from any other trader. In addition, the manufacturer brands his lines, so that the public recognise them in the other shops and have no special inducement to deal with the chemist. With the facilities we have now for obtaining well-printed labels and cartons, good-class bottles, viscose caps and cellophane wrapping, there is no reason why any chemist should not be able to put up a pack of his own equal in appearance to those he can buy, with the additional feature that it is really his own and cannot be sold by everybody. Whether it will pay him depends entirely on the individual and his business conditions, but it does pay if done properly.—Faithfully yours,

UNMECHANICAL (26/7).

The Chemist's Shortcomings

SIR,—I think that Mr. R. Cecil Owen (*C. & D.*, July 30, p. 124), in commenting on my previous letter, is under a little misapprehension. He has evidently read my opening remarks as though I said that the chemist could not do his own dispensing, packing, etc., whereas I was quoting the criticisms made by various writers recently. Personally, I plead "Not guilty." I have always done my own packing, not only for a series of own-name remedies which have quite a local sale, but also all drugs, glycerin, Parrish's food, etc. All this is done on the premises, and by careful buying and a judicious arrangement of duties I have found that not only does it pay, but that customers appreciate the fact. I am not so foolish as to make pills for stock on the dispensing counter at the price they are now bought and sold, but buy in bulk and pack for sale, and I still make a good many galenicals, especially things which are used seldom or in small quantities. I am at one with Mr. Owen regarding toilet products. When I think of the capital represented by this stock, I consider it is high time for the manufacturers, who are so fond of talking about "rationalisation" as applied to their factories, to adopt the same in regard to their goods.—Faithfully yours,

HOLABY (8/8).

The Sale of Unstamped Remedies

SIR,—Your legal page in the *C. & D.* of August 6 contains reports of cases dealing with the various firms who have emerged into the drug trade pushing remedies which are allegedly reproductions of nationally advertised remedies, at cheap prices. With the ethics of the matter I am not concerned, nor with the legal aspects of the various actions in which they are engaged. There are two emergent points, however, that it might be well for the pharmacist to consider, in that the new situation created is full of interest, and, it may well be, peril for him and his business. The first is the incomprehensibly lenient attitude adopted by the Board of Customs as regards the sale of unstamped nostrums by the unqualified vendor. The law is very clear that the "disclosure of formula" exemption from stamp-duty incidence applies solely to goods supplied by the pharmacist or the individual who can prove a pharmaceutical apprenticeship. I can hardly believe that all the oilshop keepers and hucksters' shops (or very nearly so) in the East End could show proofs of such apprenticeship, though one might believe so from their stock-in-trade. The other matter is one for the individual chemist to consider, should he be invited to stock lines such as those I refer to in my opening sentence. If he does, he must be prepared to compete with the unqualified vendor, not just the drug store keeper or herbalist—who, after all, has some humble right of place in our ranks—but the hardware merchant, the little general shop, and the oil, paint and colour store. One of the best-known series has already been well planted in this type of shop, and it is up to the pharmacist to decide if he can afford to take on such lines in second preference to a class of trader whose legitimate interest in pharmacy is very disputable. If any doubt arises as to the distribution of any particular line, a very easy test would be to endorse the order: "This order is void unless before delivery a formal guarantee is given that similar goods have not been and will not be supplied to others than pharmacists." Yes, I wonder, too.—I am, etc.,

SEEBEE (8/8).

Dispensing Notes and Difficulties

A Throat Paint

The correspondence on iodine-acetic ether-glycerin throat paint in our issue of June 4 (p. 634) and July 2 (p. 24) has brought us a letter from another contributor (19/7), informing us that Sir James Dundas Grant, the well-known consulting physician, has adopted a formula comprising equal parts of French tincture of iodine, acetic ether and glycerin.

An Unavoidable Precipitate

SIR,—With reference to the inquiry of "M. I. S." (C. & D., July 2, p. 24), re the tr. cardam. co. and liq. strychninae mixture. I have made a few observations on this incompatible: (1) If both diluted with half water before mixing there is a diffusible precipitate; (2) if both mixed as above and kept in a dark place only a comparatively slight precipitate is formed; (3) if mixed without dilution a thick flocculent precipitate is formed. In my opinion the precipitate is composed of strychnine tannate, due to the precipitation of the tannin in the cinnamon bark, a constituent of tr. cardam. co. by the strychnine. As far as I can see the best method would be to dispense as (1) and label "shake the bottle," when the precipitate will redissolve and remain in solution for about four hours.

Yours faithfully,

J. H. STACEY HALL.

Manchester.

Mist. Cret. c. Opio, N.I.F.

SIR,—Your recent note in respect to mist. cret. c. opio, N.I.F., is very timely. An experienced dispenser always makes medicines containing pulv. tragacanth. co. as they are required. The tragacanth and acacia may contain dormant "low life" which has escaped the drying of the drug and the effects of the erosion of the edge runners of the mill; this life may come into being at any moment when associated with water and the sugar and starch of the pulv. tragacanth. co. The geographical areas from which the gums reach us are hot zones, with the accompanying low fauna of desert, sand and other unclean matter, which are extremely difficult entirely to eliminate on a commercial scale. There is the further possibility of microbic infection by the ordinary process of exposure. The mixture is so easily and quickly made that the call for a stock bottle is not needful; moreover, the freshly made mixture is better as a pharmacy product.—Yours, etc.,

FRANK ENGLISH (8/2).

by any qualified chemist and druggist if in the opinion of the Board of Customs and Excise it is sufficiently medicated, and the dosage, which must appear on the label, is such as to show that it is intended to be taken as a medicine and not as a beverage. The fact that the preparation is not in the British Pharmacopœia is immaterial. But in view of the recent decision in the Brighton case, it would not be safe to sell it without a justices' licence. As to the non-alcoholic blood wine of which you send a label; if this is really non-alcoholic, it does not come within the scope of the Acts which require a licence to be taken out, both excise and justices, for the sale of intoxicating liquors. But having regard to the claim made on the label to its possessing remedial properties, it would be liable to medicine-stamp duty. The use of the word "wine" is also calculated to create difficulties, since any liquor sold or offered for sale as wine, that is foreign wine, is by law deemed, as against the seller, to be wine.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

D. L. (8/684).—The following are examples of the formulas for which you ask:—

Liquid metal polish

I		II	
Petrol	.. 76 parts	Soap	.. 10 parts
Silica	.. 18 parts	Kaolin or fossil earth	20 parts
Stearic acid	.. 6 parts	Solution of ammonia	25 parts
		Petrol	.. 45 parts

Paste metal polish

I		II	
Kerosene	.. 336 lb.	Tripoli	.. 10 lb.
Pale oleic acid	.. 112 lb.	Pipeclay	.. 10 lb.
Stearic acid	.. 112 lb.	Fumice flour	.. 5 lb.
Melt and grind with		Pale oleic acid	.. 40 oz.
abrasive earth about 560 H.		Kerosene	.. 30 oz.

Mix with sufficient white soft paraffin to form a paste

J. M. (8/3).—NEURITIS LOTION.—This consists of a volatile oil which has a slight odour of methyl salicylate, and appears to consist mainly of a terpene. On saponifying away the methyl salicylate the odour of the remaining oil is suggestive of eucalyptus, but it does not respond to the tests for either cineol or phellandrene. Therefore, it is probably a special turpentine or the like with a little methyl salicylate.

Legal Queries

R. L. (7/4) has been employed by a chemist as manager, for the past two years, under an agreement which provides for its termination by a month's notice on either side. It is also stated in the agreement that he shall have a fortnight's holiday in each year. He has had only one holiday of a fortnight; is he entitled to include the second fortnight's holiday in his period of notice if he now decides to leave his employment? [Subject to any other special terms in the contract, it would seem that "R. L." is legally entitled to a fortnight's holiday, and, in the circumstances, we do not think that he would be held liable to pay damages to his employer if he were to give a month's notice and serve for only half that period. On the other hand, we doubt whether the employer could be compelled to pay "R. L." his wages in respect of the second fortnight if his employer refused to agree to the arrangement, because a holiday, in the circumstances stated, would have to be taken at a time to suit the employer.]

J. H. S. (10/6).—An alcoholic medicated wine such as you refer to may be sold without an excise licence

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," August 15, 1882

Jubilee of the British Medical Association

The jubilee meeting of the British Medical Association has been held at Worcester during the past week, under the presidency of Dr. Strange. The Association dates its birth from the faithful city; and an interesting event in connection with the present meeting was the presentation to the Corporation, on behalf of the Association, of a bust of the late Sir Charles Hastings, of Worcester, who is regarded as the founder of the Association. Fifty years ago the society started with about fifty members; now the members number over 10,000. . . . The Temperance question came in for a good deal of talk, and the licensed victuallers of Worcester were granted an extension of time for keeping their houses open during the meeting of the Association.

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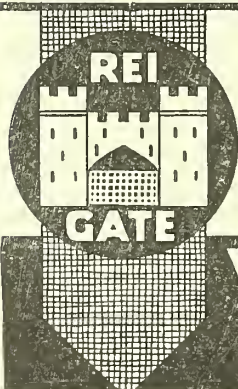
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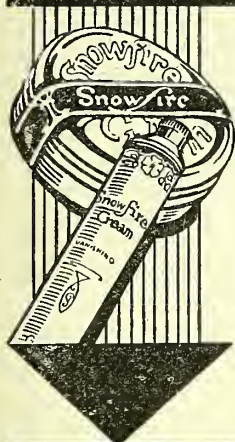


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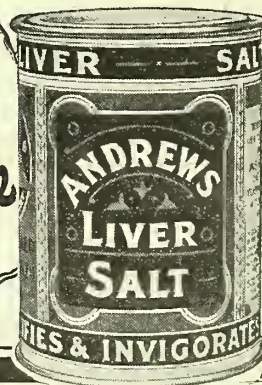
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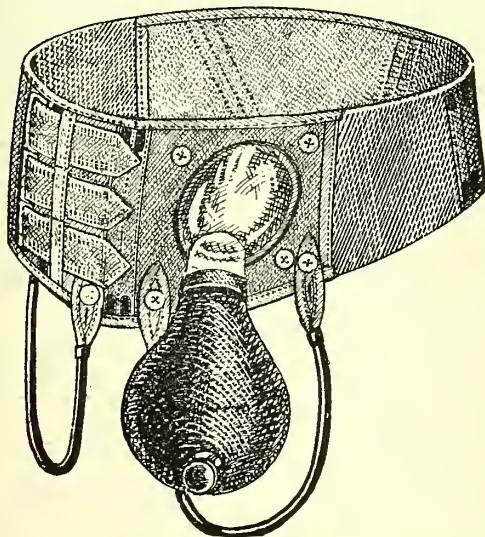
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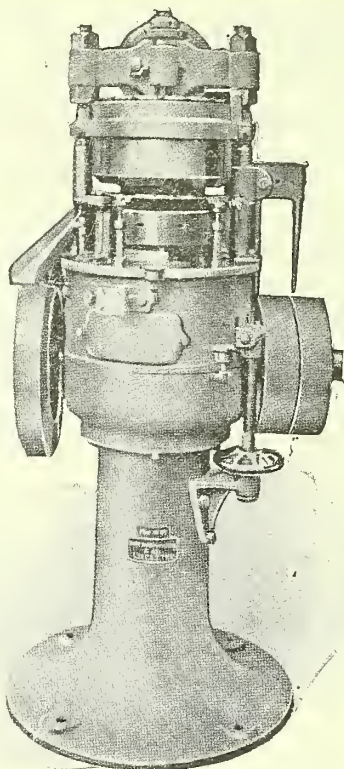
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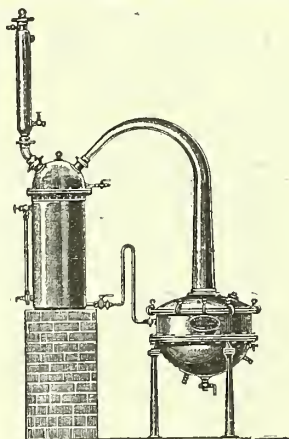
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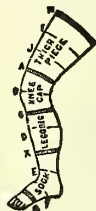
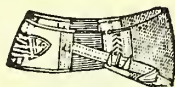
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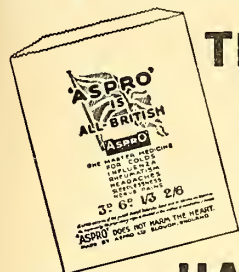
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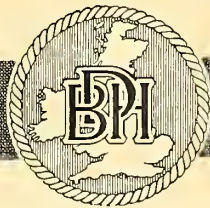
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7.—NORTHERN SUBURB.—General Retail Business with National Health Insurance Dispensing; returns approximately £3,000 per annum; good profits; rent £55 per annum; long lease; price £2,200; vendor going abroad.

8.—SUFFOLK.—Very old-established Retail Business with Kodak Agency and Wine Licence; returns about £1,400 per annum; spacious living accommodation, with large garden; lease would be granted at £60 per annum or property could be purchased; price £1,000.

9.—METROLAND.—Very much neglected Business for Sale through continued ill-health; returns present rate £30 per week; have been considerably more; good profits; excellent living accommodation; offers invited.

10.—MID-HAMPSHIRE.—Good-class Family Retail Business with Kodak Agency and small Optical connection; established 50 years; returns about £2,500 per annum; gross profit 40 per cent.; net profit £550-£600; double-fronted shop, well fitted and fully stocked; excellent living accommodation; price £400, plus valuation of stock and fixtures.

11.—MIDLAND SPA.—General Retail Business with Kodak Agency and Wine Licence; established 50 years; returns £1,500 per annum; gross profit 45 per cent.; stock and fixtures worth about £800; rent £65 per annum; price £1,000, or near offer.

12.—BOURNEMOUTH.—General Retail Business, situate in good position in rapidly developing area; returns exceed £2,200; good profits; large double-fronted shop, very well fitted and stocked; nice living accommodation; lease will be granted or property may be purchased; valuation terms entertained.

13.—ESSEX SUBURB.—Good-class Retail Business, situate in prominent position in busy road; returns present rate £33-£37 per week under management; handsomely fitted shop, fully stocked; price £650; £325 down and the remainder over an agreed period.

We make no charge to purchasers and invite intending buyers to communicate with us stating their requirements.

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

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1.—NEW FOREST.—Select Family and Dispensing Business, charmingly situated and easily worked; turnover £1,600, increasing, excellent modern house, with large well-stocked garden, garage and 1 acre of land adjoining Forest; price for business and freehold property £3,850; suitable for anyone with capital seeking a pleasant country life.

2.—SOUTH COAST RESORT.—Good-class Family and Toilet trade; easily worked; returns £1,356; net profit £323; audited figures; rent £50; house attached; stock and fixtures worth £800; price £1,250.

3.—MIDLANDS.—Old-established Business in central position of busy market town; returns average over £1,450; plenty of scope; good house; same hands many years; price valuation, plus small goodwill.

4.—NORFOLK.—Good old-established Country Business in small market town; returns £1,500; net profit £300; assistant kept; rent £45; good house and nice garden; stock worth £600; price £850; worth attention.

5.—NORTHERN SUBURB.—Good-class Business, pleasantly situated in growing residential district; turnover over £2,100, under management; handsomely fitted pharmacy, with good house attached; valuation terms arranged, in all about £1,500.

6.—EDGWARE (Near).—Good-class Family and Dispensing Business in prominent position of good residential district; returns average £3,450; books audited; bold, attractive pharmacy; fully stocked; price £2,250, or near cash offer.

7.—VICTORIA PARK (Near).—Death vacancy. Profitable Cash Retail; no near opposition; returns average £1,300; net profit £320; good house; rent £75, on lease; price £700.

8.—HERNE BAY.—Good-class Family and Dispensing Business, in best residential part; returns last year £1,850; no near opposition and plenty of scope in energetic hands; handsomely-fitted pharmacy, with large house; long lease; price £1,500, or offer.

9.—WESTCLIFF-ON-SEA.—Good-class Business for immediate sale; turnover over £1,600, increasing; easily worked; rent £55, on lease; sub-let £52; thickly populated district; no near opposition; genuine private reasons for selling; price £675.

10.—DEVON COAST (Death Vacancy).—Neglected Business in small seaside resort; returns about £1,250; plenty of scope; modern premises; splendid garden, etc.; price £850.

11.—EASTERN COUNTY.—Middle-class Cash Business, easily worked, in populous suburb of busy town; returns £1,650; low rent; lock-up shop, well fitted and stocked; price £900.

12.—KENT.—Well-established Chemist-Optician Business; Chemist's returns £30 weekly; Optical, £10 weekly; good profits; self-contained flat over; stock worth £560; price £950, or offer.

13.—SURREY (Banks of Thames).—Cash Drug and Photographic Store, in good position, and showing steady increase; returns last year £1,500; net profit £374; lock-up shop; stock worth £500; price £860.

14.—ILFORD.—Good-class Business in prominent corner position; main shopping thoroughfare; returns approximately £30 weekly; scope for increase; modern fitted pharmacy; good stock; price simply valuation, between £600 and £700; no goodwill.

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Quotations for stock taking or for pricing chemists' own stock records supplied on application.

(C1) CITY OF LONDON.—Splendidly positioned retail pharmacy with extensive clientele which includes leading financial houses, "City" business men, etc.; present turnover approximately £5,000 per annum, with scope for considerable further increase; pharmacists with capital up to approximately £4,000 who would be genuinely interested in a business of this type with a view to possible purchase, are invited to communicate privately with the London Office, as above. (Visited and recommended.)

(C2) COVENTRY.—Good family business with wine licence, well situated in good-class residential district; present returns approximately £28 weekly under management; has done over £2,000 under personal supervision; should be well capable of exceeding that figure, as the position of the business is rapidly improving, consequent upon certain improvements now in the course of construction; considerable building operations are also in process; there is a compact modern flat and the premises are held on lease at an inclusive rental of £122 per annum; for a quick sale, an all-in purchase figure of £1,000 will be accepted, which includes stock and fixtures estimated at £800; the reasons for selling are perfectly genuine and satisfactory. (Visited and recommended.)

(C3) HERTFORDSHIRE.—Good class retail business, at present doing approximately £30 to £32 weekly, and increasing; accountants' figures available; modernised premises (lock-up), well stocked and fitted; rent £60 per annum; further particulars in confidence to bona fide prospective purchasers. (Awaiting visit.)

(C4) LONDON, S.W.—Attractive pharmacy with Medicated Wine Licence, situated on busy main road of working class district; optical connection; good opening for dentistry; present returns approximately £21 weekly, with scope for considerable increase; small living accommodation; rent, lease and purchase price by negotiation. (Visited and recommended.)

(C5) LONDON, N.W.—Good dispensing and general retail pharmacy, well situated in busy thoroughfare, and ideally positioned near to busy panel practitioners; good living accommodation; returns for last financial year approximately £1,400, but there is no doubt scope for considerable increase over this amount; potential purchasers with about £650 capital can acquire this genuine business immediately; early application and investigation strongly advised. (Visited and recommended.)

(C6) REGENT'S PARK (NEAR).—Old-established dispensing and general retail business for disposal owing to retirement; excellent

position; low rental; spacious and well-fitted premises; present returns £26—£30 weekly, but these figures should not be any criterion for the future, as will probably be apparent upon inspection; further particulars to bona fide prospective purchasers upon application. (Visited and recommended.)

(C7) BUCKS.—Unique and exceptional opportunity to secure beautifully fitted pharmacy situated in healthy residential district at a figure representing less than the estimated value of stock and fixtures; ideal proposition for chemist seeking semi-retirement; excellent modern flat on premises; good living obtainable; accountant's figures available to support returns, etc.; which at present amount to approximately £27 weekly; further particulars upon application. (Visited and recommended.)

(C8) SOMERSET.—Drug Store at present doing approximately £15 weekly; good scope for increase under qualified proprietorship, or business could be profitably continued on existing lines; main road situation; good living accommodation; healthy country situation. (Awaiting visit.)

(C9) LONDON, S.W.—Pharmacy with good optical connection well situated on busy main road; exceptional opportunity for chemist-optician; present returns approximately £2,100 per annum; valuable freehold can also be acquired. (Visited and recommended.)

(C10) SOUTH MIDLANDS.—Old-established, high-class dispensing business, delightfully situated; good living accommodation; turnover approximately £3,000 per annum; optical qualification an advantage; further particulars on receipt of banker's references. (Visited and recommended.)

BUSINESSES WANTED.

An established limited company require immediately, for purposes of amalgamation, about 20 sound businesses within a 20-mile radius of London. Owners of businesses showing returns of £35 weekly and upwards, where the overhead charges are reasonable, and who for any reason are contemplating removal, are invited to communicate with the London Office as above. All information will be treated in strict confidence, and an early visit arranged in order to discuss matters in detail.

It is requested that all correspondence relative to the sale or purchase of businesses be addressed to the London Office.

S. F. CLARK, F.N.A.A. 'Phone: Prospect 3366
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STOCK-TAKING and VALUATIONS for sale, purchase, and probate, personally undertaken in all parts of the British Isles, at fees consistent with the times.
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VALUATIONS. SALES OF BUSINESSES. STOCKTAKINGS.
Enquiries Invited.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BERKSHIRE.—Country Business in healthy locality; large shop, house and garden; in very good position; N.H.I., Kodak and Ucal Agencies; average turnover £1,000; moderate rent on lease; growing neighbourhood. 253/5, Office of this Paper.

BRIGHTON.—Lock-up Corner Shop, Chemist and Optician; fitted Optical Room and two large, dry cellars; entirely newly fitted and stocked, but old established; working-class district; lease granted; advertiser's property; rent £52 year inclusive; Kodak Agency; every investigation courted; only wants seeing; £750 cash; full particulars stamp. "Bargain," 251/5, Office of this Paper.

FYLDE DISTRICT.—Unique opportunity for chemist to secure Pharmacy, recently established, in growing district; Kodak; modern house (9 rooms); returns increasing; man with capital can soon double; price, all in, £675 (£650 quick transfer); low rates; secure now, season commencing; opening Optics, etc.; house suitable season letting; property rent or sell; sale preferred, on mortgage. No triflers, please. 251/9, Office of this Paper.

KENT (Growing District).—Retail Business for disposal; large double-fronted shop and room at back; 7, 14 or 21 years' lease granted; rates low; dentist attends surgery at side; view by appointment; all particulars at interview; excellent opportunity for a good qualified Chemist; offers invited. P.C.B. 44/58, Office of this Paper.

LONDON (City).—Fine market position; lock-up shop with basement; sharp brisk trade; magnificent scope; now doing £16 weekly; can do, and has done, £23-£25 easily, but neglected; good N.H.I.; Photography excellent; £300 everything, which includes about £150 stock. For full particulars apply 252/56, Office of this Paper.

LONDON, W.—Old-established working-class Business; increasing turnover; last year £1,000; good profits; large growing Panel, Kodak, Ucal; rent £40; sub-let £52; long lease; well fitted in mahogany; well stocked; all-in price £550, or offer; advertiser will accept £200-£250 down, balance by arrangement; genuine reasons for disposal. 253/33, Office of this Paper.

MANCHESTER.—Chemist's Business for disposal; situated on busy main road; Photographic, Ucal Agencies; weekly takings £30-£36, including N.H.I.; low overhead expenses; easily worked with apprentice; good reasons for disposal; £950 or valuation. 253/40, Office of this Paper.

MANCHESTER.—Pharmacist, having just completed the purchase of country business (semi-retirement), is desirous of disposing of his present Business, which offers scope for younger man; very old-established and in present hands over 30 years; well fitted and stocked, with usual agencies, etc.; present returns are rather low, but no criterion of what can be done here, consequently the business is offered for quick sale at valuation stock and fixtures (no goodwill asked); approximately £500/£550 required everything; vendor's own property; will sell or lease at very low rental, with or without commodious house, having private entrance. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. (Tel.: Failsworth 1913.)

MIDDLESEX.—Good-class Dispensing and Photographic Business; good house and garden; long lease; returns £1,700; good reasons for disposal. 253/25, Office of this Paper.

JOHN BRIERLEY, F.N.A.A.
CHEMISTS' VALUER AND TRANSFER AGENT,
 135 Queen Street, Newton Heath, MANCHESTER
Sound businesses wanted returning £1,500 p.a.
(up to any amount). Buyers waiting.
"Personal attention to all matters." (Tel. Failsworth 1913)

N.EAST.—Good-class Retail Pharmacy; splendid main road position; Photo, D. and P., Wines and Toilets; approximate turnover £2,500 per annum; or exchange South-West. 253/31, Office of this Paper.

SOUTH COAST.—Chemist's Business for Sale; lock-up shop; good position in busy thoroughfare; suit young, energetic man; terms could be arranged to suit purchaser owing taking up post in North. 252/21, Office of this Paper.

SOUTH WALES (large town, main street).—High-class Pharmacy for Sale; established 50 years; Kodak Agency. Apply Langmaid, 45 Mount Stuart Square, Cardiff.

A UNIQUE opportunity occurs to secure flourishing Drug Store and Herbal Pharmacy with good living accommodation; low rent and long lease; in busy main road of South London; no near opposition; excellent scope for N.H.I.; price asked is for stock, fixtures and lease only; genuine reason for disposal. 252/23, Office of this Paper.

AN opportunity occurs for a young, energetic Chemist to take over an old-established Business in a market town in the West of England; good scope for further development or the introduction of Optical; living accommodation and very low rent; easy purchase terms can be arranged. 254/7, Office of this Paper.

DRUG Stores; Wolverhampton; nicely-fitted shop; well-established; lease; low rent; opening for N.H.I.; accept low price for quick sale; vendor has other interests. Further particulars 252/32, Office of this Paper.

FOR Sale, Drug, Perfumery, Toilet, Patents and Fancy Goods Business carried on in market of West Riding town; beautifully fitted and stocked and under management; rent £150 per annum; permanent tenancy; average turnover for last 3 years £3,000 per annum, under management; to qualified or unqualified is a splendid opening; don't waste time unless capital of £3,000; sole reason for sale, director is employed fully outside the business. 245/16, Office of this Paper.

PERSONS desirous of purchasing a Chemist or Drug Stores by cash or easy payments write Dunn's, 201 London Road, Liverpool, for particulars.

£600 INCLUSIVE.—Large South Coast town; steadily increasing business; in busy main road; well fitted and stocked; excellent opportunity providing great scope; satisfactory audited accounts. 253/16, Office of this Paper.

£800, ALL AT.—Old-established Pharmacy, busy market road; low rent; long lease; takings exceed £30 per week at present; N.H.I. about 250 per month; price includes fittings, fixtures and £300 stock. 253/35, Office of this Paper.

PREMISES TO LET.

SHOPS to Let on Lease, with exclusive trading facilities and splendid living accommodation; situated Prospect Parade, East End Road, East Finchley; bus 143 passes door; only two now vacant on Parade; exceptional opening for Chemist; rent £120 per annum, rising £150, or will sell freehold. Apply Sydney E. Follett, Prospect House, East End Road, N.2. 'Phone: Tudor 6077.

PREMISES FOR SALE.

NORTHAMPTONSHIRE.—Excellent House, Shop and Premises, with vacant possession immediately, in the centre of a provincial town; last census 4,500, without the services of a Resident Chemist; price, freehold, £800; fixtures at valuation. Apply 208/452, Office of this Paper.

APPRENTICES.

APPRENTICESHIP required by youth; London Matriculation and passed Part I; North London preferred. "J. R." 41 Lingwood Road, Upper Clapton, E.5.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

ERNEST J. GEORGE, Sentinel House, Southampton Row, London, W.C.1 (telephone, Museum 8340), is in a position to negotiate immediately on behalf of a private client with capital up to £8,000, for the purchase of a sound business of the right size and type in any part of England. Will interested prospective vendors please write in confidence, and if likely to be suitable, an early visit will be arranged. Direct private introduction effected if preferred.

An established limited company require immediately, for purposes of amalgamation, about 20 sound Businesses within a 20 mile radius of London; owners of businesses showing returns of £35 weekly and upwards, where the overhead charges are reasonable, and who for any reason are contemplating removal, are invited to communicate privately with Ernest J. George, as above. All information will be treated as strictly confidential, and an early visit arranged in order to discuss the matter in detail.

PHARMACIST, with capital up to £3,000, requires sound Business, preferably situated in the Midlands or Southern Counties. Please communicate initially with Ernest J. George, as above, which communications will be treated in the strictest confidence.

SCOTLAND.—Good-class Chemist's Business required, coast or country, anywhere south of the Caledonian Canal; turnover £1,000-£3,000 per annum. Particulars to Clark & Cameron, Solicitors, 135 Buchanan Street, Glasgow.

CHEMIST wishes to purchase small Business with scope for increase under personal supervision (Drug Store with opening for N.H.I., etc., entertained); cash waiting; fullest particulars (in strictest confidence) in first instance, please; Midlands or London suburbs. W. Wharton, 250/252 Langsett Road, Sheffield (6).

GOOD-CLASS Business required showing turnover £2,500 upwards (nice situation and living accommodation preferred); cash available £3,000; now free to interview; no agents; strict privacy observed. Write "Pharmacist," "Bureley," Scarsdale Avenue, Allestree, Derby.

LIMITED COMPANY wishes to purchase for cash a high-class Business in London; turnover not less than £5,000. Replies will be treated in confidence. "M.P.S.," 245/27, Office of this Paper.

AGENCIES.

LONDON AGENCY WANTED.—Experienced and well-known Sales Developer wants sole London Agency for a good selling Proprietary line or lines; West-End office and competent staff. Apply P.C.B. 44/37, Office of this Paper.

OWNER small Chemist's shop has proposal for mutual assistance for similar businesses in considerably reducing buying costs. Write for details to BM/HPFH, London, W.C.1.

THE RED BAND CHEMICAL COMPANY, LIMITED, having rearranged territory, require good Representatives (on commission basis) to represent them in the following area: All England south of Hull excepting London area; applicants must be good Salesmen; references when writing. The Red Band Chemical Co., Ltd., Richmond Terrace, Edinburgh.

PARTNERSHIP.

LONDON Wholesale House desires amalgamation or a Traveller with view to partnership. P.C.B. 44/36, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require Partners, Agents or Assistants, or wish to Sell their Businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given on the front page of this Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

SITUATIONS OPEN.**RETAIL (HOME).**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

SUBURBAN CHEMISTS, LTD., Loughton, beg to thank the 84 applicants for their vacancy, which is now filled. Those desirous of the return of their photos and testimonials please send stamped envelope for same.

BIRMINGHAM.—Qualified Manager for branch, good-class Family trade, in residential suburb; good references and experience in similar type business essential; must be capable all round and good Window-dresser, of good appearance and address. Give full particulars, age, height, references, when at liberty, salary required, etc., to "Suburbia," 251/17, Office of this Paper.

BIRMINGHAM.—Smart qualified Manager required for modern business with house attached; used to N.H.I., smart Counterman and good Window-dresser essential; good prospects, with salary and commission. Full particulars of age, salary required, previous experience, and when free, to 208/449, Office of this Paper.

LIVERPOOL.—Unqualified Assistant; must be smart and of good appearance. Send full particulars, age, height, experience, etc., and salary required (no enclosures, please, replies not guaranteed). R. & J. Herman, Chemists, Aintree, Liverpool.

MANCHESTER.—Qualified Assistant, must be good Dispenser for N.H.I. work, also good all-round experience, for middle-class business. Please state age, height, and salary required; enclose copy references. 252/40, Office of this Paper.

MIDLANDS.—Qualified Manager required for modern Family business in residential suburb of large Midland town; good house attached; must be keen and tactful Salesman and good Window-dresser; salary and commission. State age, previous experience, salary required, and when at liberty to 208/448, Office of this Paper.

SOUTH COAST.—Wanted, at once, young, qualified Assistant, smart, and used to high-class business. Write, stating full particulars, enclosing photograph if possible, to Hart & Co., 57/8 East Street, Brighton.

SOUTH WALES.—Wanted, a reliable Senior Assistant with J.C.Q.O. Optical qualification; must be a capable Window-dresser and have a pleasing personality; permanency for suitable applicant. Apply, giving full particulars and salary required, to Melville Thomas, Chemist, Neath.

STAFFORD.—Smart, well-trained Junior, to commence fourth week in September; must be quick and accurate worker. State age, experience, and salary required. J. & H. A. Averill, Stafford.

An enterprising business Assistant required; good Salesmanship and Counter experience essential and knowledge of Photography; permanency to suitable applicant. Full particulars, with salary desired and photograph if available, to "Pharmacist," 248/18, Office of this Paper.

An Assistant, qualified, wanted, male, age 23-26. Apply in first place, giving full particulars, in writing, to P. Rhosser Roberts, Ltd., The Poplar Walk Pharmacy, Croydon, Surrey.

DRUG, PERFUMERY AND DISPENSING DEPARTMENTS. The Civil Service Supply Association, Ltd., require an experienced Buyer and Manager, fully qualified. Write, in confidence in first instance, giving fullest details, including age and present position, to "Personal," General Manager "A," 425 Strand, W.C.2.

JUNIOR (male); suit one just completed apprenticeship wishing to acquire high-class Dispensing experience; not afraid of work; salary £136 per annum; enclose photo. 208/450, Office of this Paper.

JUNIOR unqualified Assistant required for September 12; quick and accurate Dispenser essential; good Window-dresser and smart Counterman; permanency for good man; age about 19. Apply, letter only, stating full particulars and wages required, to Smith, 195 Melton Road, Leicester.

JUNIOR, unqualified, tall, smart appearance, good address, wanted for old-established Family business, N.W.; must be accurate and quick Dispenser and good Window-dresser, smart Counterman. State age, wage, and experience. 251/14, Office of this Paper.

JUNIOR Assistant, male, about 23, required for quick Retail Sales, with knowledge Optics. Apply The Prosser Roberts Co., 13 Church Street, Camberwell, S.E.

JUNIOR, male, required, August 29, for good-class Dispensing business; must have some Dispensing experience. Send all particulars, with photograph (interview if possible), to H. Reynolds, 15 West Avenue, Worthing.

JUNIOR, by September 12, for Retail, Dispensing and Photo business; capable and quick; also Locum from September 5 to 10 inclusive. Full particulars, Hall, Chemist and Optician, 68 High Street, Reigate.

LADY Chemist preferred, Locum, September 12-24 inclusive. State terms only in application. No reply within four days declined. Thank you. Murray, Chemist, Tipton, Staffs.

MANAGER wanted for branch for August 22; qualified; single. Full particulars to W. Osmond Morris, Chemist, Sutton, Surrey.

PHARMACY.—Required, experienced unqualified female Assistant. Apply, in writing, stating age and experience, to Staff Manager, Royal Arsenal Co-operative Society, Ltd., 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee or officials will disqualify.

QUALIFIED Pharmacist required, September 26 to October 10, age about 25; must be trained at London College of Pharmacy; salary for the period £10. Preference given if personally known to Donald Anderson, Chemist, York Street, Broadstairs (advertiser).

QUALIFIED Manager required; poor district; salary £2 10s. and flat, plus 20 per cent. net profits. Box C., c/o Pottle & Son, 15 Cullum Street, E.C.3.

QUALIFIED Locum, lady or gentleman, wanted for 14 days, commencing about August 19. Rees, 54 Wilmslow Road, Didsbury, Manchester.

QUALIFIED Chemist-Optician, J.C.Q.O. Register; middle-working-class district, Kent; permanency right man; full particulars, experience, age, salary required, when free, recent snap if possible. Applications not answered in seven days respectfully declined. 252/10, Office of this Paper.

QUALIFIED Manager, one not afraid of hard work, wanted for a business in Hampshire; must be experienced, well up in Photography, a good Window-dresser, and good references essential. Give full particulars as to salary, etc. P.C.B. 45/7, Office of this Paper.

WANTED, immediately, young, unqualified Assistant, Scot., under 30 years; trustworthy; live in; near London; must be able to drive Austin car. Write, enclosing testimonials, to 253/9, Office of this Paper.

WANTED, qualified Locum, September 6; week or 10 days; terms and references. Lishman, Chemist, Wetherby, Yorks.

WANTED, smart Junior or Improver, to start August 29. State wages required and send references to Finn, M.P.S., 529 Battersea Park Road, or 'phone Batt. 1391 for appointment.

WANTED, qualified lady Assistant (young) for a fortnight, commencing August 15; possibility of permanency; comfortable berth. Apply Rippon's Pharmacy, 157 Uxbridge Road, Hanwell, W.7.

WHOLESALE.

A SUCCESSFUL Representative, calling on Medical men, would train a smart man as Assistant; premium required, to be returned as part salary during first six months. Full particulars as to age, education, etc., to 252/31, Office of this Paper.

COMMISSION Travellers who can earn minimum of £2 per week on 12½ per cent. basis are offered as sideline a new and exceptional line sold only through Chemists. 253/13, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

SCOTLAND.—Sole Representative, on commission, required, with proved good connection and owning car, to sell and deliver goods en route which have a heavy sale in England. Introduction to commence with exhibit at the Glasgow Exhibition. These are two Medicated lines, i.e., Tablets for Coughs and Colds retailing 9½d. a qr., and Throat, Chest and Lung Tablets retailing 3d. per oz. (boiled sugar and glucose base), for distribution by the Retail qualified Chemist only. If results satisfactory, permanent position on salary and commission will be offered, if greater production matures to sell the same firm's other products, which have an enormous sale. Apply 207/434, Office of this Paper.

FIRST-CLASS Commission Travellers required for calling on Chemists to place high-class Gland Preparations; must have good connections; some territory London and provinces still available; liberal commission; references required. Write in first instance, stating area worked, to Okasa (London) Agency, Evelyn House, Oxford Street, London, W.1.

PRIVATE limited company manufacturing well-known Patented Dental Specialities would consider the appointment of a young experienced Salesman with knowledge of Advertising and Marketing Specialities of this nature, capable of taking full control of the management and finance of this business; applicants would have option of investing capital of two or three thousand pounds in this business. Apply 251/21, Office of this Paper.

REQUIRED by progressive Pharmaceutical House, Representative with sound connection among Chemists, London area; good approach and selling ability, preferably young, qualified, and experienced in the placing of Surgical Products and Proprietary lines. Reply, giving fullest details of previous experience, age, salary required, and if car owner, and which particulars will be treated in strictest confidence, to 207/435, Office of this Paper.

REQUIRED, immediately, Forewoman for Factory Packing Department; knowledge of Toilet Preparations and ability to control staff essential; preference given to experienced person resident in Slough or district. Apply, with full particulars, to 252/14, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN.

BERMUDA.—Wanted, qualified Chemist, at least Ph.C., for Bermuda, age about 28 to 35; up-to-date London experience in general management of Store essential; some knowledge of Bacteriology desirable; salary £350 to £450, according to capabilities. Apply by letter, to Thos. S. Geard & Son, 116 Fore Street, London, E.C.2.

RHODESIA.—Young, qualified Assistant wanted; passage paid out; 3 years' agreement; salary (outdoors), first year, £26 per month; second, £28 10s.; third, £31. Apply, by letter only, "N.", 23 Arrol Road, Beckenham, Kent.

SITUATIONS WANTED.

RETAIL (HOME.)

2s. for 18 words or less, 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.—EXPERIENCED, capable young man; qualified; disengaged; keen and energetic. Apply 253/21, Office of this Paper.

A.A.A.—QUALIFIED; single; 22; smart appearance; 5 years' London and provincial experience; good, quick worker; abstainer; free. A. R. Yates, 124 Renown Street, Devonport, Plymouth.

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A COMPETENT Assistant, 21, Matriculation, Part I, all F.B.O.A. Examination except Sight-testing, 34 years' comprehensive training in Pharmacy and Optics, desires responsible post in good-class business; £3; free October 3. 248/19, Office of this Paper.

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A LOCUM or Senior; qualified; experienced; thoroughly capable all branches; Photography, A to Z. "Pharmacist," 16 Blacklands Road, S.E.6.

A SITUATION as Junior Assistant desired for September 12, in or near London, with reasonable facilities for continuance of studies; thorough West-End training; Counter, Dispensing, Photographic; passed Part I. Kenneth Samways, 418 St. Albans Road, Watford. Phone 3566.

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A SSISTANT; unqualified; part time, permanent or Locum; Notts or Derbys districts; thoroughly experienced, Dispensing, Prescribing, Counter, Galenicals; all-round handy man; single; energetic; good references. Howard, 30 Pimlico, Ilkeston.

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A SSISTANT; unqualified; 25; excellent references and experience, Dispensing, Counter, Photographics; free September 12. Evans, c/o Freeman, Chemist, 97 St. Peter's Street, St. Albans.

A SSISTANT; 28; high-class West-End and varied experience; Dispensing and Counter. Smith, 32 Squirrels Heath Lane, Hornchurch.

A SSISTANT or Locum; unqualified; reliable; all-round experience; energetic; references; disengaged. Gall, 53 Cambridge Street, Norwich.

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INTER. B.Sc., 24, smart and trustworthy, desires post; unqualified; all-round experience, including Dispensing, Counter, Photography, etc.; University education; good references; go anywhere; London district preferred. 252/24, Office of this Paper.

LADY desires congenial work in Dispensing line; temporary; London; moderate salary. 251/3, Office of this Paper.

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LOCUM; qualified; 35; experienced; disengaged August 22 to September 3; moderate terms. Smith, 80 Lorne Road, Leicester.

LOCUM; qualified; middle-age; active; reliable; sold own business; well recommended; available now. "H. F.," Berry-narbor, Ilfracombe.

LOCUM or permanency; 40; tall; unqualified; abstainer; Counter, Dispensing Photography; highest testimonials; disengaged August 20. Alexander, 189 Southampton Street, S.E.5.

LOCUM; qualified; experienced; 35; free August 21. Ridsdale, c/o Home Leigh, Hornchurch Road, Romford, Essex.

MANAGER or qualified Assistant; 25; 8 years' London and provincial experience, mainly high-class; excellent testimonials; Midlands preferred. 253/26, Office of this Paper.

MANAGER, qualified, all-round experience, married, first-class references, 1911 Certificate, requires permanency (or Locum); free August 25. Coombe, Pharmacy, Northam, N. Devon.

M.P.S., 23, conscientious, seeks post, preferably in Bournemouth district; free now. Burridge, 19 Boscombe Grove Road, Bournemouth.

M.P.S., F.B.O.A., J.C.Q.O. Register, age 23, requires permanency; moderate wage (please state) and commission on optics; own optical equipment if required. "Chemist," 71 Trafalgar Road, Newport, I.W.

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PART time; West London; evenings, all day Saturdays; Part II student; reliable, accurate Dispenser. Green, 179 Chamberlayne Road, N.W.10.

PART time wanted, evenings; 10 years' solid experience; unqualified; North London preferred. 252/6, Office of this Paper.

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